Description: This report analyzes the worldwide markets for Telecom Network Outsourcing in US$ Million by the following Network Types: Mobile Network, and Fixed Network. The report provides separate comprehensive analytics for the US, Canada, Japan, Europe, Asia-Pacific, and Rest of World.

Annual estimates and forecasts are provided for the period 2015 through 2022. Also, a six-year historic analysis is provided for these markets. Market data and analytics are derived from primary and secondary research.

Company profiles are primarily based on public domain information including company URLs. The report profiles 31 companies including many key and niche players such as -

- Ciena Corporation
- Cisco Systems, Inc.
- Fujitsu Limited
- Hewlett Packard Enterprise Co.
- Huawei Technologies Co., Ltd.

Contents:

I. INTRODUCTION, METHODOLOGY & PRODUCT DEFINITIONS
   Study Reliability and Reporting Limitations
   Disclaimers
   Data Interpretation & Reporting Level
   Quantitative Techniques & Analytics
   Product Definitions and Scope of Study
   Mobile Network
   Fixed Network

II. EXECUTIVE SUMMARY

1. INDUSTRY OVERVIEW
   Network Outsourcing: An Introduction
   Changing Dynamics in Global Telecommunication Sector Create Business Case for Outsourcing Model
   Outsourcing Takes Center Stage amid Mounting Challenges in Network Operations
   Sustained Focus on QoS & QoE Propagates Potential Opportunities
   Key Benefits offered Drive Adoption of Network Outsourcing
   Cost Reduction
   Keep Up with Technological Progression
   Improved Network Availability
   Relief from Network Related Risks
   Focus on Core Business
   Outsourcing: A Viable Approach for Resource-Constrained Telecos
   Global Market Outlook
   Developing Markets to be Growth Drivers
   Competitive Scenario
   Leading Players in the Network Outsourcing Market
   Industry-Leading Expertise Differentiates Market Leaders from Rest
   Vendors Prioritize End-to-End Services to Gain Market Traction
   Vendors Leverage Low Cost Centers

2. MARKET TRENDS & GROWTH DRIVERS
   Network Sharing: An Established Business Model
   Telcos Invest on BOT Services
   Strategic Outsourcing Collaboration for Improved Network Operations
   Managed Capacity Services Gain Wider Traction
   Consultancy & Support Services for Streamlining Network Operations
Network Outsourcing: Strategic Intent in Overseas Expansion

Backhaul: A Primary Area for Outsourcing

Growing Telecom Traffic Volumes & Subsequently Rising Network Efficiency Needs Build Momentum for Outsourcing Model

Key Statistical Data

Table 1: Global IP Traffic Scenario (2016 & 2020): IP Traffic Volume in Exabytes (includes corresponding Graph/Chart)

Surging Investments on Advanced Network Infrastructure Drive Momentum

Increased Focus on Next Generation Networks Underpin Market Demand

Expanding Role of Fiber Optic Networks Augurs Well

Key Trends in Fiber Optics Market Favoring Outsourcing Services Market

Soaring Investments on EPON & GPON Technologies

Proliferation of FTTx Networks

Ongoing Expansion in Mobile Services Sector Steers Market Momentum

Growing User Base of Smartphones & Tablets Instigates Need for Network Improvements

Table 2: World Smartphones Market by Region/ Country (2015 & 2020): Breakdown of Annual Unit Shipments (in Million) for US, Canada, Japan, Europe, Asia-Pacific, Latin America, and Middle East & Africa (includes corresponding Graph/Chart)

Transition towards 4G, 5G Underpins Revenue Growth

Latest Technology Trends Influence Demand for Mobile Network Outsourcing Services

Mobile Data Offloading

Small Cell Deployments

Fixed Line Broadband: A Lucrative Market Segment

Enterprise Sector Remains a High-Potential Revenue Source

3. ISSUES AND CHALLENGES

Internal Resistance to Outsourcing

Alignment of Senior Management

Governance and Loss of Control

Network Outsourcing Stifles Differentiation

Vendor Selection

An Eternal Challenge

Quality

A Primary Governing Variable

Security

A Formidable Challenge

4. NETWORK OUTSOURCING: AN OVERVIEW

Introduction

Environmental Analysis

Market Related Issues

Partner

Competition

Price

Financial Issues

Profits

Operational Efficiencies

Network Performance

Economies of Scale

Process

Competence

Convergence

Technology Shift

Increasing Complexity

Network Outsourcing by Network Type

Mobile Network

Fixed Network

Why Outsource?

Operator Drivers

Vendor Drivers

Vendor Selection Criteria

Vendor Selection Models

Scoping Model
operation and process model
sla model
governance model
asset transfer model
other models
how vendors create the difference
benefits of network outsourcing:
the many faces of network outsourcing
out-tasking
managed operations
managed capacity
application hosting and management
divisions and sub-segments of services offered by vendors
service level agreements
sentinels of the network outsourcing world

5. recent industry activity
Ciena collaborates with Cablevisión Argentina
Fujitsu takes over TrueNet Communications
Ciena to acquire teraXion
Ericsson renders services to 5G network trials

6. focus on select global players
Ciena Corporation (US)
Cisco Systems, Inc. (US)
Fujitsu Limited (Japan)
Hewlett Packard Enterprise Co., Ltd. (China)
IBM Corporation (US)
Juniper Networks, Inc. (US)
Motorola Solutions, Inc. (US)
NEC Corporation (Japan)
Nokia Networks (Finland)
Telefonaktiebolaget LM Ericsson (Sweden)
Tellabs, Inc. (US)
UTStarcom Holdings Corp. (China)
ZTE Corporation (China)

7. global market perspective
Table 3: World Recent Past, Current & Future Analysis for Telecom Network Outsourcing by Geographic Region
US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), and Rest of World Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2015 Through 2022 (includes corresponding Graph/Chart)
Table 4: World Historic Review for Telecom Network Outsourcing by Geographic Region
US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), and Rest of World Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2009 Through 2014 (includes corresponding Graph/Chart)
Table 5: World 14-Year Perspective for Telecom Network Outsourcing by Geographic Region
Percentage Breakdown of Expenditure for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), and Rest of World Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)
Table 6: World Recent Past, Current & Future Analysis for Mobile Network Outsourcing by Geographic Region
US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), and Rest of World Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2015 Through 2022 (includes corresponding Graph/Chart)
Table 7: World Historic Review for Mobile Network Outsourcing by Geographic Region
US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), and Rest of World Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2009 Through 2014 (includes corresponding Graph/Chart)
Table 8: World 14-Year Perspective for Mobile Network Outsourcing by Geographic Region
Percentage Breakdown of Expenditure for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), and Rest of World Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)
Table 9: World Recent Past, Current & Future Analysis for Fixed Network Outsourcing by Geographic Region
US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), and Rest of World Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2015 Through 2022 (includes corresponding Graph/Chart)
Table 10: World Historic Review for Fixed Network Outsourcing by Geographic Region

III. MARKET

1. THE UNITED STATES
   A. Market Analysis
      Market Overview
      Strategic Corporate Developments
      Select Key Players
   B. Market Analytics
      Table 12: US Recent Past, Current & Future Analysis for Telecom Network Outsourcing by Network Type
      Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million
      for Years 2015 Through 2022 (includes corresponding Graph/Chart)
      Table 13: US Historic Review for Telecom Network Outsourcing by Network Type
      Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million
      for Years 2009 Through 2014 (includes corresponding Graph/Chart)
      Table 14: US 14-Year Perspective for Network Outsourcing by Network Type
      Percentage Breakdown of Expenditure for Mobile Network and Fixed Network Markets for Years 2009, 2016 & 2022
      (includes corresponding Graph/Chart)

2. CANADA
   A. Market Analysis
      Outlook
      LTE Transition and 5G Moves Offer Opportunities
   B. Market Analytics
      Table 15: Canadian Recent Past, Current & Future Analysis for Telecom Network Outsourcing by Network Type
      Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million
      for Years 2015 Through 2022 (includes corresponding Graph/Chart)
      Table 16: Canadian Historic Review for Telecom Network Outsourcing by Network Type
      Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million
      for Years 2009 Through 2014 (includes corresponding Graph/Chart)
      Table 17: Canadian 14-Year Perspective for Network Outsourcing by Network Type
      Percentage Breakdown of Expenditure for Mobile Network and Fixed Network Markets for Years 2009, 2016 & 2022
      (includes corresponding Graph/Chart)

3. JAPAN
   A. Market Analysis
      Select Key Players
   B. Market Analytics
      Table 18: Japanese Recent Past, Current & Future Analysis for Telecom Network Outsourcing by Network Type
      Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million
      for Years 2015 Through 2022 (includes corresponding Graph/Chart)
      Table 19: Japanese Historic Review for Telecom Network Outsourcing by Network Type
      Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million
      for Years 2009 Through 2014 (includes corresponding Graph/Chart)
      Table 20: Japanese 14-Year Perspective for Network Outsourcing by Network Type
      Percentage Breakdown of Expenditure for Mobile Network and Fixed Network Markets for Years 2009, 2016 & 2022
      (includes corresponding Graph/Chart)

4. EUROPE
   A. Market Analysis
      Market Overview
      Business Models Witness Strategic Shift towards Outsourcing
      Increasing Digital Consumption to Shape Demand for Outsourcing
      Value Added Offerings Gain Importance over Cost Savings
      Complete Solution Providers to Gain Popularity
   Market Forces Determine Level of Outsourcing
Uptrend in Mobile Network Services Underpins Revenue Growth
Table 21: 4G Coverage Rate as a Percentage of Population in Select European Countries as of Q3 2016 (includes corresponding Graph/Chart)

B. Market Analytics
Table 22: European Recent Past, Current & Future Analysis for Telecom Network Outsourcing by Geographic Region
France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2015 Through 2022 (includes corresponding Graph/Chart)
Table 23: European Historic Review for Telecom Network Outsourcing by Geographic Region
France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2009 Through 2014 (includes corresponding Graph/Chart)
Table 24: European 14-Year Perspective for Network Outsourcing by Geographic Region
Percentage Breakdown of Expenditure for France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)
Table 25: European Recent Past, Current & Future Analysis for Telecom Network Outsourcing by Network Type
Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2015 Through 2022 (includes corresponding Graph/Chart)
Table 26: European Historic Review for Telecom Network Outsourcing by Network Type
Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2009 Through 2014 (includes corresponding Graph/Chart)
Table 27: European 14-Year Perspective for Network Outsourcing by Network Type
Percentage Breakdown of Expenditure for Mobile Network and Fixed Network Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

4a. FRANCE
A. Market Analysis
Outlook
Increased Need to Enhance Network Efficiency Builds Momentum
B. Market Analytics
Table 28: French Recent Past, Current & Future Analysis for Telecom Network Outsourcing by Network Type
Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2015 Through 2022 (includes corresponding Graph/Chart)
Table 29: French Historic Review for Telecom Network Outsourcing by Network Type
Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2009 Through 2014 (includes corresponding Graph/Chart)
Table 30: French 14-Year Perspective for Network Outsourcing by Network Type
Percentage Breakdown of Expenditure for Mobile Network and Fixed Network Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

4b. GERMANY
A. Market Analysis
Outlook
Mobile Networks Drive Momentum
B. Market Analytics
Table 31: German Recent Past, Current & Future Analysis for Telecom Network Outsourcing by Network Type
Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2015 Through 2022 (includes corresponding Graph/Chart)
Table 32: German Historic Review for Telecom Network Outsourcing by Network Type
Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2009 Through 2014 (includes corresponding Graph/Chart)
Table 33: German 14-Year Perspective for Network Outsourcing by Network Type
Percentage Breakdown of Expenditure for Mobile Network and Fixed Network Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

4c. ITALY
Market Analysis
Table 34: Italian Recent Past, Current & Future Analysis for Telecom Network Outsourcing by Network Type
Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2015 Through 2022 (includes corresponding Graph/Chart)
Table 35: Italian Historic Review for Telecom Network Outsourcing by Network Type
Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2009 Through 2014 (includes corresponding Graph/Chart)
for Years 2009 Through 2014 (includes corresponding Graph/Chart)
Table 36: Italian 14-Year Perspective for Network Outsourcing by Network Type
Percentage Breakdown of Expenditure for Mobile Network and Fixed Network Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

4d. THE UNITED KINGDOM
A. Market Analysis
Outlook
Mobile Networks Lead Fixed Networks in Network Outsourcing
B. Market Analytics
Table 37: UK Recent Past, Current & Future Analysis for Telecom Network Outsourcing by Network Type
Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2015 Through 2022 (includes corresponding Graph/Chart)
Table 38: UK Historic Review for Telecom Network Outsourcing by Network Type
Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2009 Through 2014 (includes corresponding Graph/Chart)
Table 39: UK 14-Year Perspective for Network Outsourcing by Network Type
Percentage Breakdown of Expenditure for Mobile Network and Fixed Network Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

4e. SPAIN
Market Analysis
Table 40: Spanish Recent Past, Current & Future Analysis for Telecom Network Outsourcing by Network Type
Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2015 Through 2022 (includes corresponding Graph/Chart)
Table 41: Spanish Historic Review for Telecom Network Outsourcing by Network Type
Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2009 Through 2014 (includes corresponding Graph/Chart)
Table 42: Spanish 14-Year Perspective for Network Outsourcing by Network Type
Percentage Breakdown of Expenditure for Mobile Network and Fixed Network Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

4f. RUSSIA
Market Analysis
Table 43: Russian Recent Past, Current & Future Analysis for Telecom Network Outsourcing by Network Type
Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2015 Through 2022 (includes corresponding Graph/Chart)
Table 44: Russian Historic Review for Telecom Network Outsourcing by Network Type
Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2009 Through 2014 (includes corresponding Graph/Chart)
Table 45: Russian 14-Year Perspective for Network Outsourcing by Network Type
Percentage Breakdown of Expenditure for Mobile Network and Fixed Network Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

4g. REST OF EUROPE
A. Market Analysis
Corporate Development
Select Key Players
B. Market Analytics
Table 46: Rest of Europe Recent Past, Current & Future Analysis for Telecom Network Outsourcing by Network Type
Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2015 Through 2022 (includes corresponding Graph/Chart)
Table 47: Rest of Europe Historic Review for Telecom Network Outsourcing by Network Type
Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2009 Through 2014 (includes corresponding Graph/Chart)
Table 48: Rest of Europe 14-Year Perspective for Network Outsourcing by Network Type
Percentage Breakdown of Expenditure for Mobile Network and Fixed Network Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

5. ASIA-PACIFIC
A. Market Analysis
Outlook
Asia-Pacific: The Lucrative Market for Network Outsourcing
Ongoing Expansion in Regional ICT Sector Creates Conducive Environment
Mobile Phone Operators: Leading the Charge in Network Outsourcing Market
Cost Savings Drive Demand for Network Outsourcing Model
Changing Market Conditions Drive Operators to Network Outsourcing
Overview of Select Regional Markets
China
Vast Telecom Sector Extends High-Potential Opportunities
Network Upgrades Drive Demand
Table 49: Chinese Mobile Communication Market by Technology (2017): Percentage Breakdown of Subscribers for 4G, 3G and 2G (includes corresponding Graph/Chart)
Table 50: Chinese Mobile Subscriber Penetration as a Percentage (%) of Total Population (2009-2017) (includes corresponding Graph/Chart)
India
Network Outsourcing Seeks to Expand Role in India's Vast Telecom Sector
Select Key Players
B. Market Analytics
Table 51: Asia-Pacific Recent Past, Current & Future Analysis for Telecom Network Outsourcing by Network Type
Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2015 Through 2022 (includes corresponding Graph/Chart)
Table 52: Asia-Pacific Historic Review for Telecom Network Outsourcing by Network Type
Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2009 Through 2014 (includes corresponding Graph/Chart)
Table 53: Asia-Pacific 14-Year Perspective for Network Outsourcing by Network Type
Percentage Breakdown of Expenditure for Mobile Network and Fixed Network Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

6. REST OF WORLD
A. Market Analysis
Outlook
Latin America: An Upcoming Market for Network Outsourcing
B. Market Analytics
Table 54: Rest of World Recent Past, Current & Future Analysis for Telecom Network Outsourcing by Network Type
Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2015 Through 2022 (includes corresponding Graph/Chart)
Table 55: Rest of World Historic Review for Telecom Network Outsourcing by Network Type
Mobile Network and Fixed Network Markets Independently Analyzed with Annual Expenditure in US$ Million for Years 2009 Through 2014 (includes corresponding Graph/Chart)
Table 56: Rest of World 14-Year Perspective for Network Outsourcing by Network Type
Percentage Breakdown of Expenditure for Mobile Network and Fixed Network Markets for Years 2009, 2016 & 2022 (includes corresponding Graph/Chart)

IV. COMPETITIVE LANDSCAPE
Total Companies Profiled: 31 (including Divisions/Subsidiaries 34)
- The United States (13)
- Japan (3)
- Europe (8)
- France (1)
- Germany (1)
- Rest of Europe (6)
- Asia-Pacific (Excluding Japan) (10)

Order by Fax - using the form below
Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

Product Name: Telecom Network Outsourcing - Global Strategic Business Report
Web Address: http://www.researchandmarkets.com/reports/2255348/
Office Code: SC

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Format Description</th>
<th>Single User</th>
<th>1 - 5 Users</th>
<th>1 - 10 Users</th>
<th>1 - 15 Users</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF)</td>
<td>USD 4950</td>
<td>USD 6930</td>
<td>USD 9405</td>
<td>USD 11880</td>
</tr>
</tbody>
</table>

* The price quoted above is only valid for 30 days. Please submit your order within that time frame to avail of this price as all prices are subject to change.

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title: [ ] Mr  [ ] Mrs  [ ] Dr  [ ] Miss  [ ] Ms  [ ] Prof
First Name: __________________________________________  Last Name: ______________________________________________
Email Address: * _______________________________________
Job Title: _____________________________________________
Organisation: __________________________________________
Address: ______________________________________________
City: __________________________________________________
Postal / Zip Code: ______________________________________
Country: _______________________________________________
Phone Number: _________________________________________
Fax Number: ___________________________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by Wire Transfer: Bank details will be provided on the invoice which you will receive after you place your order with us.

If you have a Marketing Code please enter it below:

Marketing Code: ___________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World