

Al in Networks Market by Offering (Router & Switches, Al Networking Platform, Management Software, Software Defined Networking), Function (Optimization, Cybersecurity, Predictive Maintenance), Technology (Gen Al, ML, NLP) - Global Forecast to 2029

Market Report | 2024-08-13 | 236 pages | MarketsandMarkets

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#### Report description:

The global AI in Networks market is expected to be valued at USD 10.9 billion in 2024 and is projected to reach USD 46.8 billion by 2029 and grow at a CAGR of 33.8% from 2024 to 2029. The increasing adoption of 5G technology is one of the growth drivers for the AI in networks market. With the proliferation of IoT devices, video surveillance, and smart city initiatives, the adoption of 5G is rising. The technology is being used for high-bandwidth applications in smart cities, video surveillance, and more. The use of 5G technology thus generates vast amounts of data, leading to the demand for AI to manage and optimize network data to improve customer experience.

"Al in networks market for software offering to account for the second highest CAGR during the forecast period."

The Al in networks market for software offerings is projected to grow at the second-highest CAGR during the forecast period. The increasing demand for enhanced network data analytics and insights primarily drives the growth. The software offers real-time insights into network performance and potential threats. This enables network operators to enhance network operations and mitigate problems before they damage service quality. Additionally, software solutions can be deployed in less time compared to hardware solutions, making them suitable for large-scale infrastructure.

"Al in networks market for machine learning technology to account for the highest market share during the forecast period."

Machine learning technology in Al in networks market is expected to hold the highest market share during the forecast period.

Machine learning algorithms automate various network management tasks, reducing human intervention and errors. Additionally, machine learning algorithms handle vast amounts of network traffic. It processes, manages, and utilizes this data to generate

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real-time insights for managing network operations. With the increase in internet penetration and the use of high bandwidth services such as video streaming and online gaming, the demand for machine learning technology to handle and manage data is rising.

"Telecom service providers end-use industry in AI in networks market to account for the highest market share during the forecast period."

Telecom service providers in the AI in networks market are projected to hold the highest market share during the forecast period. With the increasing adoption of 5G technology, telecom providers are increasingly adopting AI-driven network solutions to manage various network operations. Companies use artificial intelligence technology to identify cyber threats, manage network traffic, and perform network automation tasks. Additionally, AI-driven solutions help telecom operators detect equipment issues in advance by analyzing historical data, enabling companies to schedule maintenance timely and reduce downtime.

"Al in networks market for North America to account for the highest market share during the forecast period."

The AI in networks market in North America is expected to hold the highest share during the forecast period. The growth is primarily driven by the presence of large AI and network companies in the region, contributing to the growth of AI in the networks market. Additionally, due to the presence of numerous tech companies, the threat of cyberattacks also increases, driving the demand for advanced AI-driven networking solutions. These AI-driven solutions help companies deploy advanced security measures and provide real-time threat detection.

The study contains insights from various industry experts, from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

- By Company Type: Tier 1 10%, Tier 2 55%, and Tier 3 35%
- By Designation: C-level Executives 45%, Managers 25%, and Others 30%
- -□By Region: North America 55%, Europe 20%, Asia Pacific 15%, RoW 10%

The key players operating in the AI in networks market are NVIDIA Corporation (US), Cisco Systems, Inc. (US), Telefonaktiebolaget LM Ericsson (Sweden), Hewlett Packard Enterprise Development LP (US), Arista Networks, Inc. (US).

#### Research Coverage:

The research report categorizes the AI in networks market, By Offering (Routers and Ethernet Switches, Software, AI-networking platform, and Services), Technology (Generative AI, Machine Learning, Deep Learning, Natural Language Processing (NLP), and Other technologies), Deployment (On-premise, Cloud and Hybrid), Network Function (Network Optimization, Network Cybersecurity, Network Predictive Maintenance, Network Troubleshooting, and Others), End-Use Industry (Telecom Service Providers, Enterprises, Data Centers, Government, and Other End-use industry), Region (North America, Europe, Asia Pacific, and RoW).

Key Benefits of Buying the Report

- Analysis of key drivers (Rising adoption of 5G technology, Increased demand for network efficiency, Proliferation of IoT devices, Increase in data traffic), restraints (High implementation costs, Data privacy and security concerns, Complexities in Al in Networks integration), opportunities (Rising demand for enhanced analytics, Increasing prevalence of smart city initiatives, Rise in network automation demand), and challenges (Rapid change in technology landscape, Compatibility and interoperability issues) influencing the growth of the Al in networks market.
- Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the Al in networks market
- Market Development: Comprehensive information about lucrative markets the report analyses the AI in networks market across varied regions.
- Market Diversification: Exhaustive information about new services, untapped geographies, recent developments, and investments in the Al in networks market

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- Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players in the AI in networks market, such as NVIDIA Corporation, Cisco Systems, Inc. (US), Telefonaktiebolaget LM Ericsson (Sweden), Hewlett Packard Enterprise Development LP (US), Arista Networks, Inc. (US).

#### **Table of Contents:**

1 INTRODUCTION 21

- 1.1 STUDY OBJECTIVES 21
- 1.2 MARKET DEFINITION 21
- 1.3∏STUDY SCOPE∏22
- 1.3.1 MARKETS COVERED 22
- 1.3.2∏INCLUSIONS AND EXCLUSIONS∏22
- 1.3.3 YEARS CONSIDERED 23
- 1.4 CURRENCY CONSIDERED 23
- 1.5 LIMITATIONS 23
- 1.6□STAKEHOLDERS□24
- 2 RESEARCH METHODOLOGY 25
- 2.1 RESEARCH DATA 25
- 2.1.1 SECONDARY DATA 26
- 2.1.1.1 List of key secondary sources 26
- 2.1.1.2 Key data from secondary sources 26
- 2.1.2 PRIMARY DATA 27
- 2.1.2.1 List of primary interview participants 27
- 2.1.2.2 Key data from primary sources 28
- 2.1.2.3 Key industry insights 28
- 2.1.2.4 Breakdown of primaries 29
- 2.1.3 SECONDARY AND PRIMARY RESEARCH 30
- 2.2□MARKET SIZE ESTIMATION METHODOLOGY□30
- 2.2.1 BOTTOM-UP APPROACH 32
- $2.2.1.1 \square \text{Approach}$  to arrive at market size using bottom-up analysis

(demand side) □ 32

- 2.2.2 TOP-DOWN APPROACH 33
- 2.2.2.1 ☐ Approach to arrive at market size using top-down analysis

(supply side) ☐ 33

- 2.3 MARKET BREAKDOWN AND DATA TRIANGULATION 34
- 2.4 RESEARCH ASSUMPTIONS 35
- 2.5 RISK ASSESSMENT 36
- 2.6 RESEARCH LIMITATIONS 36
- 3 EXECUTIVE SUMMARY 37
- 4 PREMIUM INSIGHTS 41
- 4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN AI IN NETWORKS MARKET 4.1
- 4.2□ASIA PACIFIC: AI IN NETWORKS MARKET, BY COUNTRY AND END USER□42
- 4.3∏NORTH AMERICA: AI IN NETWORKS MARKET, BY COUNTRY∏42
- 4.4∏AI IN NETWORKS MARKET, BY COUNTRY∏43
- 5 MARKET OVERVIEW 44
- 5.1 INTRODUCTION 44
- 5.2 MARKET DYNAMICS 44

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- 5.2.1 DRIVERS 45
- 5.2.1.1 Rising adoption of 5G technology 45
- 5.2.1.2 Increased demand for network efficiency 46
- 5.2.1.3 Proliferation of IoT devices 46
- 5.2.1.4 Increase in data traffic 47
- 5.2.2 | RESTRAINTS | 47
- 5.2.2.1 High implementation costs 48
- 5.2.2.2 Data privacy and security concerns 48
- 5.2.2.3 Complexities in integration of AI in networks 48
- 5.2.3 □ OPPORTUNITIES □ 49
- 5.2.3.1 Rising demand for enhanced analytics 49
- 5.2.3.2 | Increasing prevalence of smart city initiatives | 50
- 5.2.3.3 Rise in network automation demand 50
- 5.2.4 CHALLENGES 51
- 5.2.4.1 Rapid changes in technology landscape 51
- 5.2.4.2 Compatibility and interoperability issues 51
- 5.3 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS 52
- 5.4 PRICING ANALYSIS 53
- 5.4.1 □ AVERAGE SELLING PRICE OF AI IN NETWORKS OFFERED
- BY KEY PLAYERS, BY OFFERING∏53
- 5.4.2 AVERAGE SELLING PRICE TREND, BY REGION 54
- 5.5 VALUE CHAIN ANALYSIS 55
- 5.6∏ECOSYSTEM ANALYSIS∏56
- 5.7□INVESTMENT AND FUNDING SCENARIO□58
- 5.8 TECHNOLOGY ANALYSIS 58
- 5.8.1 KEY TECHNOLOGIES 58
- 5.8.1.1 Machine learning algorithms 58
- 5.8.1.2 Natural language processing 58
- 5.8.1.3 Predictive analytics 58
- 5.8.1.4 ☐ Edge computing ☐ 58
- 5.8.2 COMPLEMENTARY TECHNOLOGIES 59
- 5.8.2.1 ☐ 5G technology ☐ 59
- 5.8.2.2⊓Internet of Things (IoT)⊓59
- 5.8.2.3 Cloud computing 59
- 5.8.2.4 Blockchain technology 59
- ?
- 5.8.3 ADJACENT TECHNOLOGIES 59
- 5.8.3.1 Software-defined networking 59
- 5.8.3.2 Network function virtualization 59
- 5.8.3.3 Cybersecurity solutions 59
- 5.8.3.4 Big data analytics 59
- 5.9 PATENT ANALYSIS 60
- 5.10 □ TRADE ANALYSIS □ 65
- 5.11 KEY CONFERENCES AND EVENTS DURING 2024-2025 67
- 5.12 CASE STUDY ANALYSIS 68
- 5.12.1 □ VODAFONE PARTNERS WITH NOKIA TO ENHANCE ITS NETWORK OPERATIONS THROUGH AI SOLUTIONS □ 68
- 5.12.2 AT&T COLLABORATES WITH IBM TO INTEGRATE AI INTO ITS

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#### NETWORK MANAGEMENT∏68

5.12.3 DEUTSCHE TELEKOM WORKS WITH HUAWEI TO LEVERAGE AI FOR NETWORK AUTOMATION AND MANAGEMENT 69

5.12.4 TELEFONICA PARTNERS WITH ERICSSON TO DEPLOY AI SOLUTIONS

IN ITS NETWORK ☐ 69

5.12.5 ORANGE COLLABORATES WITH CISCO TO IMPLEMENT AI IN

ITS NETWORK INFRASTRUCTURE □ 70

5.13 TARIFF AND REGULATORY LANDSCAPE 170

5.13.1 TARIFF ANALYSIS 70

5.13.2 REGULATORY BODIES, GOVERNMENT AGENCIES,

AND OTHER ORGANIZATIONS∏71

5.13.3 STANDARDS & REGULATIONS RELATED TO AI IN NETWORKS MARKET 74

5.14 PORTER'S FIVE FORCES ANALYSIS 75

5.14.1 THREAT OF NEW ENTRANTS 76

5.14.2 THREAT OF SUBSTITUTES 76

5.14.3 BARGAINING POWER OF SUPPLIERS 76

5.14.4 BARGAINING POWER OF BUYERS 176

5.14.5 INTENSITY OF COMPETITIVE RIVALRY 177

5.15 KEY STAKEHOLDERS AND BUYING CRITERIA 77

5.15.1 KEY STAKEHOLDERS IN BUYING PROCESS 77

5.15.2 BUYING CRITERIA 78

6□AI IN NETWORKS MARKET, BY USE CASE□79

6.1□INTRODUCTION□79

6.2∏AI-DRIVEN ISSUE IDENTIFICATION∏79

6.3□IMPROVED WIRELESS PERFORMANCE□79

6.4□AI-ENHANCED ENDPOINT ANALYTICS□80

7∏AI IN NETWORKS MARKET, BY OFFERING[181

7.1 INTRODUCTION 82

7.2 ROUTERS AND ETHERNET SWITCHES 83

7.2.1 DATA PROCESSING AND NETWORK OPTIMIZATION - KEY SEGMENT DRIVERS 83

7.3∏SOFTWARE∏85

7.3.1 EFFICIENT DEPLOYMENT, OPTIMIZATION, AND MANAGEMENT OF AI-DRIVEN NETWORKS TO BOOST SEGMENT 85

7.3.1.1 Network Management Software 87

7.3.1.2 Network Security Software 87

7.3.1.3 Software-defined Networking 87

7.4 AI NETWORKING PLATFORMS 88

7.4.1 INCREASING COMPLEXITY AND SCALE OF MODERN NETWORKS

TO DRIVE MARKET 88

7.5∏SERVICES∏90

7.5.1 | IDENTIFICATION OF AI INTEGRATION OPPORTUNITIES - KEY DRIVER | 90

8∏AI IN NETWORKS MARKET, BY NETWORK FUNCTION∏92

8.1□INTRODUCTION□93

8.2 OPTIMIZATION 94

8.2.1 □ INTELLIGENT SOLUTIONS FOR ENHANCED PERFORMANCE

NETWORKS - KEY DRIVER □94

8.3 CYBERSECURITY 95

8.3.1 | INCREASING CYBER THREATS AND NEED TO PROTECT SENSITIVE

DATA TO DRIVE MARKET 95

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8.4 PREDICTIVE MAINTENANCE 95

8.4.1 DEMAND FOR LOW DOWNTIME AND OPTIMIZED RESOURCE

ALLOCATION TO DRIVE MARKET □95

8.5 TROUBLESHOOTING 96

8.5.1 ENHANCED OPERATIONAL EFFICIENCY AND RELIABILITY IN

AI NETWORKS - KEY DRIVER □96

8.6 OTHER NETWORK FUNCTIONS 97

8.6.1 INCREASING DATA VOLUMES AND DIVERSE APPLICATIONS TO

DRIVE MARKET∏97

9□AI IN NETWORKS MARKET, BY DEPLOYMENT MODE□98

9.1∏INTRODUCTION∏99

9.2∏ON-PREMISES∏100

9.2.1 ☐ HIGH DEMAND FOR DATA PRIVACY AND SECURITY TO

ACCELERATE MARKET GROWTH 100

9.3 CLOUD 101

9.3.1 DEMAND FOR COST-EFFECTIVE NETWORKING SOLUTIONS TO

DRIVE SEGMENT□101

10 AI IN NETWORKS MARKET, BY TECHNOLOGY 103

10.1 INTRODUCTION 104

10.2∏MACHINE LEARNING∏106

10.2.1 $\square$ ENHANCES SECURITY AND ENABLES PREDICTIVE ANALYTICS FOR EFFICIENT RESOURCE ALLOCATION $\square$ 106 ?

10.3 DEEP LEARNING 107

10.3.1∏ENABLES ADVANCED ANOMALY DETECTION AND

DECISION-MAKING CAPABILITIES 107

10.4 GENERATIVE AI 108

10.4.1 ENABLES AUTONOMOUS NETWORK MANAGEMENT, ENHANCING CYBERSECURITY MEASURES 108

10.5 NATURAL LANGUAGE PROCESSING 109

10.5.1 ENHANCES NETWORK MANAGEMENT AND OPERATIONAL EFFICIENCY 109

10.6 OTHER TECHNOLOGIES ☐ 110

10.6.1 ENABLE ENHANCED REAL-TIME DATA PROCESSING 110

11∏AI IN NETWORKS MARKET, BY END USER∏112

11.1∏INTRODUCTION∏113

11.2 TELECOM SERVICE PROVIDERS 114

11.2.1 INCREASING ADOPTION OF 5G NETWORKS TO DRIVE MARKET 11.4

11.3 ENTERPRISES 115

11.3.1 DEMAND FOR SCALABLE NETWORK MANAGEMENT SOLUTIONS

TO DRIVE SEGMENT□115

11.3.2□LARGE ENTERPRISES□116

11.3.3 SMES 117

11.4 DATA CENTERS 117

11.4.1 INCREASING DEMAND FOR CLOUD INFRASTRUCTURE TO BOOST SEGMENT 11.7

11.5 GOVERNMENT 118

11.5.1 RISE IN AI INFRASTRUCTURE INITIATIVES TO DRIVE MARKET GROWTH 118

11.6 OTHER END USERS 119

11.6.1 DEMAND FOR ENHANCED CYBERSECURITY TO FUEL GROWTH 119

12 AI IN NETWORKS MARKET, BY REGION 121

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- 12.1 INTRODUCTION 122
- 12.2 NORTH AMERICA 123
- 12.2.1 MACROECONOMIC OUTLOOK FOR NORTH AMERICA 124
- 12.2.2 US 127
- 12.2.2.1 Increasing demand for cloud computing and 5G technology

to drive market 127

- 12.2.3 CANADA 128
- 12.2.3.1 Investments in cybersecurity solutions to drive market 128
- 12.2.4 MEXICO 128
- 12.2.4.1 Expansion of data centers to drive demand 128
- 12.3∏EUROPE∏129
- 12.3.1 MACROECONOMIC OUTLOOK FOR EUROPE 130
- 12.3.2∏UK∏134
- 12.3.2.1 ☐Increasing investments in 5G infrastructure to provide opportunities for market growth ☐134

?

- 12.3.3 GERMANY 134
- 12.3.3.1 Increasing adoption of AI and cloud computing to boost market 134
- 12.3.4 FRANCE 135
- 12.3.4.1 Growing concerns for cybersecurity to accelerate market growth 135
- 12.3.5∏ITALY∏135
- 12.3.5.1 Increasing initiatives toward digital transformation to

drive market growth 135

- 12.3.6 REST OF EUROPE 136
- 12.4

  ☐ASIA PACIFIC

  ☐ 137
- 12.4.1 MACROECONOMIC OUTLOOK FOR ASIA PACIFIC 138
- 12.4.2 CHINA 141
- 12.4.2.1 Growing 5G infrastructure and increasing investment in telecommunication sector to drive market growth 141
- 12.4.3∏APAN∏142
- 12.4.3.1 Increasing demand for cloud infrastructure to drive market growth 142
- 12.4.4 SOUTH KOREA 143
- 12.4.4.1 Need for robust network security solutions to present opportunities for players 143
- 12.4.5 REST OF ASIA PACIFIC 143
- 12.5⊓ROW⊓144
- 12.5.1 MACROECONOMIC OUTLOOK FOR ROW 144
- 12.5.2 MIDDLE EAST 147
- 12.5.2.1 GCC Countries 147
- 12.5.2.1.1 Government initiatives to build smart infrastructure

to drive market 147

- 12.5.2.2 Rest of Middle East 148
- 12.5.3 SOUTH AMERICA 148
- 12.5.3.1 Growing investment in 5G infrastructure in Brazil and Colombia to drive market 148
- 12.5.4 AFRICA 148
- 12.5.4.1∏Increasing internet penetration and government initiatives in region to drive market∏148
- 13 COMPETITIVE LANDSCAPE 150
- 13.1□INTRODUCTION□150
- 13.2 KEY PLAYER STRATEGIES/RIGHT TO WIN 150
- 13.3 REVENUE ANALYSIS OF KEY PLAYERS: AI IN NETWORKS MARKET 152

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```
13.4 MARKET SHARE ANALYSIS, 2023 152
13.4.1 KEY PLAYERS: AI IN NETWORKS MARKET, 2023 154
13.5 COMPANY FINANCIAL METRICS 156
13.6 COMPANY VALUATION AND FINANCIAL METRICS 156
13.7 BRAND COMPARISON 157
13.8 COMPANY EVALUATION MATRIX, KEY PLAYERS 158
13.8.1 STARS 158
13.8.2 EMERGING LEADERS 158
13.8.3 PERVASIVE PLAYERS 158
13.8.4 PARTICIPANTS 158
13.8.5 COMPANY FOOTPRINT 160
13.8.5.1 Offering footprint 161
13.8.5.2 Deployment mode footprint 162
13.8.5.3 Technology footprint 163
13.8.5.4 Network function footprint 164
13.8.5.5 End user footprint 165
13.8.5.6 Region footprint 167
13.9 COMPANY EVALUATION MATRIX, (STARTUPS/SMES), 2023 168
13.9.1 □ PROGRESSIVE COMPANIES □ 168
13.9.2 RESPONSIVE COMPANIES 168
13.9.3 DYNAMIC COMPANIES 168
13.9.4 STARTING BLOCKS 168
13.9.5 COMPETITIVE BENCHMARKING STARTUPS/SMES, 2023 170
13.9.5.1 Detailed list of key startups/SMEs 170
13.9.5.2 Competitive benchmarking of key startups/SMEs 170
13.10 COMPETITIVE SCENARIO & TRENDS 171
14 COMPANY PROFILES 178
14.1 KEY PLAYERS 178
14.1.1 NVIDIA CORPORATION 178
14.1.1.1 Business overview 178
14.1.1.2 Products/Solutions/Services offered 180
14.1.1.3 Recent developments 181
14.1.1.3.1 Product/Service launches 181
14.1.1.3.2 Deals 181
14.1.1.4 MnM view 181
14.1.1.4.1 Right to win 181
14.1.1.4.2 Strategic choices 182
14.1.1.4.3 Weaknesses/Competitive threats 182
14.1.2 CISCO SYSTEMS, INC. 183
14.1.2.1 Business overview 183
14.1.2.2 Products/Solutions/Services offered 185
14.1.2.3 Recent developments 186
14.1.2.3.1 Product/Service launches 186
14.1.2.3.2 \verb|| Deals \verb||| 186
14.1.2.4 MnM view 187
```

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- 14.1.2.4.1 Right to win 187
- 14.1.2.4.2 Strategic choices 187
- 14.1.2.4.3 Weaknesses/Competitive threats 187
- 14.1.3 TELEFONAKTIEBOLAGET LM ERICSSON 188
- 14.1.3.1 Business overview 188
- $14.1.3.2 \verb||Products/solutions/services| offered \verb||| 189$
- 14.1.3.3 Recent developments 190
- 14.1.3.3.1 Product/Service launches 190
- 14.1.3.3.2 Deals 190
- 14.1.3.4 MnM view 191
- 14.1.3.4.1 Right to win 191
- 14.1.3.4.2 Strategic choices 191
- 14.1.3.4.3 \text{\text{\text{Weaknesses/Competitive threats}}\text{\text{\text{191}}}
- 14.1.4 HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP[192
- 14.1.4.1 Business overview 192
- 14.1.4.2 Products/solutions/services offered 193
- 14.1.4.3 Recent developments 194
- 14.1.4.3.1 Product/service launches 194
- 14.1.4.3.2 Deals 194
- 14.1.4.4 | MnM view | 195
- 14.1.4.4.1 Right to win 195
- 14.1.4.4.2 Strategic choices 195
- 14.1.4.4.3 Weaknesses/Competitive threats 195
- 14.1.5 ARISTA NETWORKS, INC. 196
- 14.1.5.1 Business overview 196
- 14.1.5.2 Products/Solutions/Services offered 197
- 14.1.5.3 Recent developments 197
- 14.1.5.3.1 Product/Service launches 197
- 14.1.5.4 MnM view 198
- 14.1.5.4.1 Right to win 198
- 14.1.5.4.2 Strategic choices 198
- 14.1.5.4.3 \text{\text{\text{Weaknesses/Competitive threats}}\text{\text{\text{198}}}
- 14.1.6 $\square$ JUNIPER NETWORKS, INC. $\square$ 199
- 14.1.6.1 Business overview 199
- 14.1.6.2 Products/Solutions/Services offered 200
- 14.1.6.3 Recent developments 202
- 14.1.6.3.1 Product/Service launches 202
- $14.1.6.3.2 \verb|| Deals \verb||| 203$

?

- 14.1.7 CIENA CORPORATION 204
- 14.1.7.1 Business overview 204
- 14.1.7.2 Products/solutions/services offered 206
- 14.1.7.3 Recent developments 206
- 14.1.7.3.1 Deals 206
- 14.1.8 EXTREME NETWORKS 207
- 14.1.8.1 Business overview 207
- 14.1.8.2 Products/solutions/services offered 208

### Scotts International. EU Vat number: PL 6772247784

- 14.1.8.3 Recent developments 208
- 14.1.8.3.1 Product/Service launches 208
- 14.1.9 FUJITSU 209
- 14.1.9.1 Business overview 209
- 14.1.9.2 Products/solutions/services offered 211
- 14.1.10 HUAWEI TECHNOLOGIES CO., LTD. 212
- 14.1.10.1 Business overview 212
- 14.1.10.2 Products/solutions/services offered 213
- 14.1.11 NOKIA 215
- 14.1.11.1 Business overview 215
- 14.1.11.2 Products/solutions/services offered 217
- 14.1.11.3 Recent developments 218
- 14.1.11.3.1 Deals 218
- 14.2 OTHER PLAYERS 219
- 14.2.1 DELL INC. 219
- 14.2.2 FORWARD NETWORKS 220
- 14.2.3 FORTINET, INC. 221
- 14.2.4 ANUTA NETWORKS INTERNATIONAL LLC 222
- 14.2.5 PALO ALTO NETWORKS 223
- 14.2.6 NETSCOUT 223
- 14.2.7 A10 NETWORKS, INC. 224
- 14.2.8 VERSA NETWORKS, INC. 224
- 14.2.9 RIVERBED TECHNOLOGY 225
- $14.2.10 \square IBM \square 225$
- 14.2.11 ALE INTERNATIONAL 226
- 14.2.12 BLUECAT NETWORKS 226
- 14.2.13 GIGABIT TECHNOLOGIES PVT. LTD. 227
- 14.2.14 SOLARWINDS WORLDWIDE, LLC 227
- 14.2.15  $\ \square$  ZOHO CORPORATION PVT. LTD.  $\ \square$  228
- ?
- 15 APPENDIX 229
- 15.1 DISCUSSION GUIDE 229
- 15.2 KNOWLEDGESTORE: MARKETSANDMARKETS? SUBSCRIPTION PORTAL 232
- 15.3 CUSTOMIZATION OPTIONS □234
- 15.4 RELATED REPORTS 234
- 15.5 AUTHOR DETAILS 235



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