

Network Emulator Market by Offering (Hardware and Software), Application (SD-WAN, Cloud, and IoT), Vertical (Telecommunication, Government and Defense, BFSI), and Region (North America, Europe, APAC, MEA, Latin America) - Global Forecast to 2028

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Abstracts

The Network emulator market is estimated at USD 218 million in 2023 to USD 318 million by 2028, at a CAGR of 7.9% from 2023 to 2028. The rapid expansion of IoT devices is fueling the network emulator market. These devices rely on seamless network connections for optimal performance and require realistic testing. Network emulators simulate various network conditions, enabling comprehensive IoT testing. As IoT applications diversify, network interactions become complex, necessitating emulation to analyze real-world behaviors. Emulators assess IoT devices under different network scenarios, ensuring reliability and interoperability. As IoT adoption grows in sectors like healthcare and manufacturing, the demand for accurate testing via network emulators drives market expansion.

“SD-WAN application to contribute the largest market share in the network emulator market during the forecast period.”

The network emulators adeptly replicate authentic network scenarios within controlled laboratory settings, harnessing advanced WAN emulation capabilities. Network emulators simplify the intricate task of configuring and optimizing SD-WAN strategies by skillfully mirroring actual WAN connections. They enable tailored optimization approaches based on unique network dynamics and application requirements. Furthermore, they create a controlled environment for simulating diverse WAN conditions, allowing comprehensive performance validation before real-world implementation. In essence, network emulators provide a potent toolkit for navigating

the complexities of SD-WAN testing, ensuring the refinement of configurations and strategies that seamlessly align with the demands of real-world operational scenarios.

“The BFSI vertical is expected to register the fastest growth rate during the forecast period.”

The BFSI vertical provides extensive growth opportunities for the network emulator as the BFSI vertical should have complete control of devices and applications that are deployed on their networks. The BFSI sector uses network emulator products to simulate various network conditions to conduct realistic pre-deployment testing of new applications to ensure proper systems work when rolled out in the production network. Network emulators empower financial institutions to design and deploy network infrastructures that can automate business processes and offer modern applications.

‘Asia Pacific to register the highest growth rate during the forecast period.’

The Asia Pacific arena, home to nations like China, Japan, ANZ, and Singapore, is witnessing heightened security expenditure owing to an escalating threat panorama. Fueled by effective governmental regulations and technological headway, this dynamic economy hub offers fertile ground for network emulator expansion. Poised as the fastest-growing domain, the Asia Pacific network emulator sector thrives on cutting-edge technology adoption, GDP upswings, and robust economic advancement. Notable countries in the market landscape encompass China, Japan, South Korea, Indonesia, Thailand, Malaysia, and Singapore. As industrialization gains momentum, intensifying competition drives organizations to elevate customer service standards, further augmenting regional growth prospects. The burgeoning appetite for cloud-driven and cloud-supported network emulators fuels increased investments and technological strides spanning diverse industry verticals across Asia.

Breakdown of primaries

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

By Company Type: Tier 1 – 35%, Tier 2 – 45%, and Tier 3 – 20%

By Designation: C-level – 35%, D-level – 25%, and Others – 40%

By Region: North America – 45%, Europe – 20%, Asia Pacific – 30%, ROW- 5%.

The major players in the Network emulator market are Spirent Communications (UK), Keysight Technologies (US), Viavi Solutions (US), Calnex Solutions (UK), Rohde & Schwarz (Germany), Polaris Networks (US), Packetstorm (US), Solarwinds (US), Interworking Labs (US), Apposite Technologies (US), W2BI (US), GL Communications (US), Valid8 (US), Aldec (US), Marben Products (France), Aukua (US), Simnovus (US), Eve-NG Pro (UK), Giganet Systems (US), Qosmotec Software Solutions (Germany), Tetcos (India), Modulo Communications Systems (Israel), Nihon Communications Systems (India), and NextGig Systems (US). These players have adopted various growth strategies, such as partnerships, agreements and collaborations, new product launches, product enhancements, and acquisitions to expand their footprint in the Network emulator market.

Research Coverage

The market study covers the Network emulator market size across different segments. It aims at estimating the market size and the growth potential across different segments, including offerings (hardware and software), application, test type, vertical, and region. The study includes an in-depth competitive analysis of the leading market players, their company profiles, key observations related to product and business offerings, recent developments, and market strategies.

Key Benefits of Buying the Report

The report will help the market leaders/new entrants with information on the closest approximations of the global Network emulator market's revenue numbers and subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. Moreover, the report will provide insights for stakeholders to understand the market's pulse and provide them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Rise of attacks and security breaches on networks, and need for reduced downtime in networking), restraints (Longer timelines and extended R&D requirements for new networking technologies, and price

sensitivity of network testing and emulators), opportunities (Increasing demand for software-defined networking and virtualization, Multi-protocol support and advanced functions provided by the same hardware emulator, and Investments in R&D and positive outcomes from the testing phase of 5G networks), and challenges (Lack of skilled workforce to comprehend and report issues in networking, and Fast changing network requirements to act as a concern for emulators) influencing the growth of the Network emulator market. Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the Network emulator market. Market Development: Comprehensive information about lucrative markets – the report analyses the Network emulator market across various regions. Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the Network emulator market. Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Spirent Communications (UK), Keysight Technologies (US), Viavi Solutions (US), Calnex Solutions (UK), Rohde & Schwarz (Germany), Polaris Networks (US), Packetstorm (US), Solarwinds (US), Interworking Labs (US), Apposite Technologies (US), W2BI (US), GL Communications (US), Valid8 (US), Aldec (US), Marben Products (France), Aukua (US), Simnovus (US), Eve-NG Pro (UK), Giganet Systems (US), Qosmotec Software Solutions (Germany), Tetcos (India), Modulo Communications Systems (Israel), Nihon Communications Systems (India), and NextGig Systems (US).

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.2.1 INCLUSIONS & EXCLUSIONS

1.3 MARKET SCOPE

1.3.1 MARKET SEGMENTATION

1.3.2 REGIONS COVERED

1.3.3 YEARS CONSIDERED

1.4 CURRENCY CONSIDERED

TABLE 1 USD EXCHANGE RATES, 2019–2022

1.5 STAKEHOLDERS

1.6 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 1 NETWORK EMULATOR MARKET: RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.1.1 Secondary sources

2.1.2 PRIMARY DATA

2.1.2.1 Breakup of primary profiles

2.1.2.2 Primary sources

2.1.2.3 Key industry insights

2.2 MARKET BREAKUP AND DATA TRIANGULATION

FIGURE 2 DATA TRIANGULATION

2.3 MARKET SIZE ESTIMATION

2.3.1 BOTTOM-UP APPROACH

FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY – APPROACH 1 (SUPPLY SIDE): REVENUE OF HARDWARE AND SOFTWARE IN NETWORK EMULATOR MARKET

FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY - APPROACH 1 (BOTTOM-UP) (SUPPLY-SIDE): COLLECTIVE REVENUE OF HARDWARE AND SOFTWARE IN NETWORK EMULATOR MARKET

2.3.2 TOP-DOWN APPROACH

FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY - APPROACH 2 (DEMAND SIDE): NETWORK EMULATOR MARKET

2.4 MARKET FORECAST

TABLE 2 FACTOR ANALYSIS

2.5 RESEARCH ASSUMPTIONS

2.6 RESEARCH LIMITATIONS

2.7 NETWORK EMULATOR MARKET: RECESSION IMPACT

3 EXECUTIVE SUMMARY

FIGURE 6 NETWORK EMULATOR MARKET, 2021–2028

FIGURE 7 NETWORK EMULATOR MARKET: REGIONAL SHARE, 2023

FIGURE 8 ASIA PACIFIC TO BE BEST MARKET FOR INVESTMENTS DURING FORECAST PERIOD

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR KEY PLAYERS IN NETWORK EMULATOR MARKET

FIGURE 9 RISE IN ATTACKS AND SECURITY BREACHES AND NEED FOR REDUCED DOWNTIME TO DRIVE MARKET

4.2 NORTH AMERICAN NETWORK EMULATOR MARKET, BY OFFERING AND COUNTRY, 2023

FIGURE 10 HARDWARE SEGMENT AND US TO ACCOUNT FOR LARGEST SHARES

4.3 ASIA PACIFIC NETWORK EMULATOR MARKET, BY OFFERING AND KEY COUNTRY, 2023

FIGURE 11 HARDWARE SEGMENT AND CHINA TO ACCOUNT FOR LARGEST SHARES

5 MARKET OVERVIEW AND INDUSTRY TRENDS

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 12 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES: NETWORK EMULATOR MARKET

5.2.1 DRIVERS

5.2.1.1 Rise of attacks and security breaches on networks

5.2.1.2 Rise in virtualization and cloud adoption

5.2.1.3 Need for reduced downtime in networking

5.2.2 RESTRAINTS

5.2.2.1 Longer timelines and extended R&D requirements for new networking technologies

5.2.2.2 Price sensitivity of network testing and emulators

5.2.3 OPPORTUNITIES

5.2.3.1 Increasing demand for software-defined networking and virtualization

5.2.3.2 Multi-protocol support and advanced functions provided by same hardware emulator

5.2.3.3 Investments in R&D and positive outcomes from testing phase of 5G networks

5.2.4 CHALLENGES

5.2.4.1 Lack of skilled workforce to comprehend and report issues in networking

5.2.4.2 Fast-changing network requirements to pose as challenge for emulators

5.3 NETWORK EMULATOR MARKET: VALUE CHAIN ANALYSIS

FIGURE 13 NETWORK EMULATOR MARKET: VALUE CHAIN

5.3.1 RAW MATERIAL SUPPLIERS

5.3.2 NETWORK EMULATOR MANUFACTURERS

5.3.3 DISTRIBUTION AND SALES

5.3.4 SYSTEM INTEGRATORS AND CONSULTANTS

5.3.5 END USERS

5.3.6 SERVICE AND SUPPORT

5.3.7 RESEARCH AND DEVELOPMENT

5.4 ECOSYSTEM ANALYSIS

TABLE 3 NETWORK EMULATOR MARKET: ECOSYSTEM ANALYSIS

5.5 PORTER'S FIVE FORCES ANALYSIS

TABLE 4 NETWORK EMULATOR MARKET: PORTER'S FIVE FORCES MODEL

5.5.1 THREAT OF NEW ENTRANTS

5.5.2 THREAT OF SUBSTITUTES

5.5.3 BARGAINING POWER OF BUYERS

5.5.4 BARGAINING POWER OF SUPPLIERS

5.5.5 INTENSITY OF COMPETITIVE RIVALRY

5.5.6 KEY STAKEHOLDERS AND BUYING CRITERIA

5.5.6.1 Key stakeholders in buying process

FIGURE 14 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE APPLICATION TYPES

TABLE 5 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE APPLICATION TYPES (%)

5.5.6.2 Buying criteria

FIGURE 15 KEY BUYING CRITERIA FOR TOP THREE APPLICATION TYPES

TABLE 6 KEY BUYING CRITERIA FOR TOP THREE APPLICATION TYPES

5.6 TECHNOLOGY ANALYSIS

5.6.1 INTRODUCTION

5.6.2 MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE

5.6.3 INTERNET OF THINGS

5.6.4 VIRTUALIZATION

5.6.5 CLOUD

5.6.6 SOFTWARE-DEFINED NETWORKING

5.7 TRENDS AND DISRUPTIONS IMPACTING BUYERS

FIGURE 16 REVENUE SHIFT FOR NETWORK EMULATOR MARKET

5.8 PATENT ANALYSIS

5.8.1 METHODOLOGY

5.8.2 DOCUMENT TYPE

TABLE 7 PATENTS FILED, 2020–2023

5.8.3 INNOVATION AND PATENT APPLICATION

FIGURE 17 TOTAL NUMBER OF PATENTS GRANTED ANNUALLY, 2020–2023

5.8.4 TOP APPLICANTS

FIGURE 18 TOP TEN COMPANIES WITH HIGHEST NUMBER OF PATENT APPLICATIONS, 2020–2023

5.9 PRICING ANALYSIS

TABLE 8 PRICING ANALYSIS

5.10 USE CASES

5.10.1 USE CASE: SCENARIO 1

5.10.2 USE CASE: SCENARIO 2

5.10.3 USE CASE: SCENARIO 3

5.10.4 USE CASE: SCENARIO 4

5.10.5 USE CASE: SCENARIO 5

5.11 KEY CONFERENCES & EVENTS, 2023

TABLE 9 NETWORK EMULATOR MARKET: DETAILED LIST OF CONFERENCES & EVENTS

5.12 TARIFF AND REGULATORY IMPACT

5.12.1 SOC 2

5.12.2 DIGITAL MILLENNIUM COPYRIGHT ACT

5.12.3 ANTI-CYBERSQUATTING CONSUMER PROTECTION ACT

5.12.4 NORTH AMERICA

5.12.5 EUROPE

5.12.6 ASIA PACIFIC

5.12.7 MIDDLE EAST AND SOUTH AFRICA

5.12.8 LATIN AMERICA

6 NETWORK EMULATOR MARKET, BY OFFERING

6.1 INTRODUCTION

6.1.1 OFFERING: NETWORK EMULATOR MARKET DRIVERS

FIGURE 19 SOFTWARE SEGMENT TO GROW AT HIGHER CAGR DURING FORECAST PERIOD

TABLE 10 NETWORK EMULATOR MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 11 NETWORK EMULATOR MARKET, BY OFFERING, 2023–2028 (USD MILLION)

6.2 HARDWARE

6.2.1 HARDWARE-BASED NETWORK EMULATORS TO HELP WITH ACCURATE SIMULATION FOR COMPREHENSIVE NETWORK TESTING AND VALIDATION

TABLE 12 HARDWARE: NETWORK EMULATOR MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 13 HARDWARE: NETWORK EMULATOR MARKET, BY REGION, 2023–2028 (USD MILLION)

6.3 SOFTWARE

6.3.1 SOFTWARE-BASED NETWORK EMULATORS TO PLAY VITAL ROLE IN CONTROLLED NETWORK ASSESSMENT AND OPTIMIZATION

TABLE 14 SOFTWARE: NETWORK EMULATOR MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 15 SOFTWARE: NETWORK EMULATOR MARKET, BY REGION, 2023–2028 (USD MILLION)

7 NETWORK EMULATOR MARKET, BY APPLICATION TYPE

7.1 INTRODUCTION

7.1.1 APPLICATION TYPE: NETWORK EMULATOR MARKET DRIVERS

FIGURE 20 IOT SEGMENT TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 16 NETWORK EMULATOR MARKET, BY APPLICATION TYPE, 2018–2022 (USD MILLION)

TABLE 17 NETWORK EMULATOR MARKET, BY APPLICATION TYPE, 2023–2028 (USD MILLION)

7.2 SD-WAN

7.2.1 INCREASED DEPLOYMENT OF APPLICATIONS ON WAN NETWORKS TO FUEL MARKET GROWTH

TABLE 18 SD-WAN: NETWORK EMULATOR MARKET, BY REGION, 2018–2022

(USD MILLION)

TABLE 19 SD-WAN: NETWORK EMULATOR MARKET, BY REGION, 2023–2028

(USD MILLION)

7.3 CLOUD

7.3.1 SIMULATED CONDITIONS IN CLOUD TO HELP TEST AND VALIDATE APPLICATION PERFORMANCE

TABLE 20 CLOUD: NETWORK EMULATOR MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 21 CLOUD: NETWORK EMULATOR MARKET, BY REGION, 2023–2028 (USD MILLION)

7.4 INTERNET OF THINGS

7.4.1 INCREASE IN NUMBER OF CONNECTED DEVICES TO ACCELERATE USE OF NETWORK EMULATORS

TABLE 22 INTERNET OF THINGS: NETWORK EMULATOR MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 23 INTERNET OF THINGS: NETWORK EMULATOR MARKET, BY REGION, 2023–2028 (USD MILLION)

7.5 OTHER APPLICATION TYPES

TABLE 24 OTHER APPLICATION TYPES: NETWORK EMULATOR MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 25 OTHER APPLICATION TYPES: NETWORK EMULATOR MARKET, BY REGION, 2023–2028 (USD MILLION)

8 NETWORK EMULATOR MARKET, BY TEST TYPE

8.1 INTRODUCTION

8.1.1 TEST TYPE: NETWORK EMULATOR MARKET DRIVERS

8.2 PERFORMANCE TESTING

8.3 APPLICATION TESTING

8.4 OTHER TEST TYPES

9 NETWORK EMULATOR MARKET, BY VERTICAL

9.1 INTRODUCTION

9.1.1 VERTICAL: NETWORK EMULATOR MARKET DRIVERS

FIGURE 21 BFSI TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 26 NETWORK EMULATOR MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 27 NETWORK EMULATOR MARKET, BY VERTICAL, 2023–2028 (USD

MILLION)

9.2 TELECOMMUNICATIONS

9.2.1 NETWORK EMULATORS TO HELP TELECOM NETWORK OPERATORS TO EMULATE COMPLEX NETWORK DEPLOYMENTS AND CREATE COMPLEX NETWORK CONDITIONS

TABLE 28 TELECOMMUNICATIONS: NETWORK EMULATOR MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 29 TELECOMMUNICATIONS: NETWORK EMULATOR MARKET, BY REGION, 2023–2028 (USD MILLION)

9.3 BFSI

9.3.1 SIMULATION OF VARIOUS NETWORKS TO CONDUCT REALISTIC PRE-DEPLOYMENT TESTING TO DRIVE MARKET GROWTH IN BFSI VERTICAL

TABLE 30 BFSI: NETWORK EMULATOR MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 31 BFSI: NETWORK EMULATOR MARKET, BY REGION, 2023–2028 (USD MILLION)

9.4 GOVERNMENT & DEFENSE

9.4.1 INCREASED EXPENDITURE ON DEFENSE PROJECTS TO ACCELERATE MARKET GROWTH IN GOVERNMENT & DEFENSE VERTICAL

TABLE 32 GOVERNMENT & DEFENSE: NETWORK EMULATOR MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 33 GOVERNMENT & DEFENSE: NETWORK EMULATOR MARKET, BY REGION, 2023–2028 (USD MILLION)

9.5 OTHER VERTICALS

TABLE 34 OTHER VERTICALS: NETWORK EMULATOR MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 35 OTHER VERTICALS: NETWORK EMULATOR MARKET, BY REGION, 2023–2028 (USD MILLION)

10 NETWORK EMULATOR MARKET, BY REGION

10.1 INTRODUCTION

FIGURE 22 ASIA PACIFIC TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

TABLE 36 NETWORK EMULATOR MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 37 NETWORK EMULATOR MARKET, BY REGION, 2023–2028 (USD MILLION)

10.2 NORTH AMERICA

10.2.1 NORTH AMERICA: NETWORK EMULATOR MARKET DRIVERS

10.2.2 NORTH AMERICA: RECESSION IMPACT

FIGURE 23 NORTH AMERICA: MARKET SNAPSHOT

TABLE 38 NORTH AMERICA: NETWORK EMULATOR MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 39 NORTH AMERICA: NETWORK EMULATOR MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 40 NORTH AMERICA: NETWORK EMULATOR MARKET, BY APPLICATION TYPE, 2018–2022 (USD MILLION)

TABLE 41 NORTH AMERICA: NETWORK EMULATOR MARKET, BY APPLICATION TYPE, 2023–2028 (USD MILLION)

TABLE 42 NORTH AMERICA: NETWORK EMULATOR MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 43 NORTH AMERICA: NETWORK EMULATOR MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

TABLE 44 NORTH AMERICA: NETWORK EMULATOR MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 45 NORTH AMERICA: NETWORK EMULATOR MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

10.2.3 US

10.2.3.1 Enterprises and service providers in US to implement network emulator solutions on large scale

TABLE 46 US: NETWORK EMULATOR MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 47 US: NETWORK EMULATOR MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 48 US: NETWORK EMULATOR MARKET, BY APPLICATION TYPE, 2018–2022 (USD MILLION)

TABLE 49 US: NETWORK EMULATOR MARKET, BY APPLICATION TYPE, 2023–2028 (USD MILLION)

TABLE 50 US: NETWORK EMULATOR MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 51 US: NETWORK EMULATOR MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

10.2.4 CANADA

10.2.4.1 Need for network emulators to ensure proper functioning of apps or devices on cloud and other network environments to drive market growth in Canada

10.3 EUROPE

10.3.1 EUROPE: NETWORK EMULATOR MARKET DRIVERS

10.3.2 EUROPE: RECESSION IMPACT

TABLE 52 EUROPE: NETWORK EMULATOR MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 53 EUROPE: NETWORK EMULATOR MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 54 EUROPE: NETWORK EMULATOR MARKET, BY APPLICATION TYPE, 2018–2022 (USD MILLION)

TABLE 55 EUROPE: NETWORK EMULATOR MARKET, BY APPLICATION TYPE, 2023–2028 (USD MILLION)

TABLE 56 EUROPE: NETWORK EMULATOR MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 57 EUROPE: NETWORK EMULATOR MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

TABLE 58 EUROPE: NETWORK EMULATOR MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 59 EUROPE: NETWORK EMULATOR MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

10.3.3 UK

10.3.3.1 Increasing demand for 5G network emulators to drive market growth in UK
TABLE 60 UK: NETWORK EMULATOR MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 61 UK: NETWORK EMULATOR MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 62 UK: NETWORK EMULATOR MARKET, BY APPLICATION TYPE, 2018–2022 (USD MILLION)

TABLE 63 UK: NETWORK EMULATOR MARKET, BY APPLICATION TYPE, 2023–2028 (USD MILLION)

TABLE 64 UK: NETWORK EMULATOR MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 65 UK: NETWORK EMULATOR MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

10.3.4 GERMANY

10.3.4.1 Increased spending on network infrastructure to fuel growth of network emulator market in Germany

10.3.5 FRANCE

10.3.5.1 Rising IT budget in France to drive network emulator market growth

10.3.6 SPAIN

10.3.6.1 Telecommunications segment to notably drive market growth in Spain

10.3.7 ITALY

10.3.7.1 Network emulators to ensure seamless connectivity for intelligent traffic management in Italy

10.3.8 NORDICS

10.3.8.1 Startup ecosystem to thrive in Nordic countries with help of network emulators

10.3.9 REST OF EUROPE

10.4 ASIA PACIFIC

10.4.1 ASIA PACIFIC: NETWORK EMULATOR MARKET DRIVERS

10.4.2 ASIA PACIFIC: RECESSION IMPACT

FIGURE 24 ASIA PACIFIC: MARKET SNAPSHOT

TABLE 66 ASIA PACIFIC: NETWORK EMULATOR MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 67 ASIA PACIFIC: NETWORK EMULATOR MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 68 ASIA PACIFIC: NETWORK EMULATOR MARKET, BY APPLICATION TYPE, 2018–2022 (USD MILLION)

TABLE 69 ASIA PACIFIC: NETWORK EMULATOR MARKET, BY APPLICATION TYPE, 2023–2028 (USD MILLION)

TABLE 70 ASIA PACIFIC: NETWORK EMULATOR MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 71 ASIA PACIFIC: NETWORK EMULATOR MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

TABLE 72 ASIA PACIFIC: NETWORK EMULATOR MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 73 ASIA PACIFIC: NETWORK EMULATOR MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

10.4.3 CHINA

10.4.3.1 Increasing investments in network infrastructure to fuel growth of network emulator market in China

10.4.4 JAPAN

10.4.4.1 Japan to experience noticeable increase in adoption of network emulator solutions

10.4.5 INDIA

10.4.5.1 Expanding digital landscape and growing reliance on advanced network infrastructure to increase adoption of network emulators in India

10.4.6 SOUTH KOREA

10.4.6.1 Network emulator market in South Korea to be shaped by its mobile-centric society

10.4.7 AUSTRALIA & NEW ZEALAND

10.4.7.1 Remote work demand in ANZ to boost network emulator market

10.4.8 SOUTHEAST ASIA

10.4.8.1 Southeast Asia to thrive amid rapid technological progress and digital inclusivity initiatives

10.4.9 REST OF ASIA PACIFIC

10.5 MIDDLE EAST & AFRICA

10.5.1 MIDDLE EAST & AFRICA: NETWORK EMULATOR MARKET DRIVERS

10.5.2 MIDDLE EAST & AFRICA: RECESSION IMPACT

TABLE 74 MIDDLE EAST & AFRICA: NETWORK EMULATOR MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 75 MIDDLE EAST & AFRICA: NETWORK EMULATOR MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 76 MIDDLE EAST & AFRICA: NETWORK EMULATOR MARKET, BY APPLICATION TYPE, 2018–2022 (USD MILLION)

TABLE 77 MIDDLE EAST & AFRICA: NETWORK EMULATOR MARKET, BY APPLICATION TYPE, 2023–2028 (USD MILLION)

TABLE 78 MIDDLE EAST & AFRICA: NETWORK EMULATOR MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 79 MIDDLE EAST & AFRICA: NETWORK EMULATOR MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

TABLE 80 MIDDLE EAST & AFRICA: NETWORK EMULATOR MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 81 MIDDLE EAST & AFRICA: NETWORK EMULATOR MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

10.5.3 KSA

10.5.3.1 KSA to forge technological frontiers with network emulators

10.5.4 UAE

10.5.4.1 Leading telecom providers and technology companies in UAE to drive adoption of network emulators

10.5.5 SOUTH AFRICA

10.5.5.1 Government initiatives and investments in digital infrastructure in South Africa to boost demand for network emulation tools

10.6 LATIN AMERICA

10.6.1 LATIN AMERICA: NETWORK EMULATOR MARKET DRIVERS

10.6.2 LATIN AMERICA: RECESSION IMPACT

TABLE 82 LATIN AMERICA: NETWORK EMULATOR MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 83 LATIN AMERICA: NETWORK EMULATOR MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 84 LATIN AMERICA: NETWORK EMULATOR MARKET, BY APPLICATION TYPE, 2018–2022 (USD MILLION)

TABLE 85 LATIN AMERICA: NETWORK EMULATOR MARKET, BY APPLICATION TYPE, 2023–2028 (USD MILLION)

TABLE 86 LATIN AMERICA: NETWORK EMULATOR MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 87 LATIN AMERICA: NETWORK EMULATOR MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

TABLE 88 LATIN AMERICA: NETWORK EMULATOR MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 89 LATIN AMERICA: NETWORK EMULATOR MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

10.6.3 BRAZIL

10.6.3.1 Adoption of emerging technologies, such as 5G and Internet of Things (IoT), to lead to market growth in Brazil

10.6.4 MEXICO

10.6.4.1 Network emulator market to cater to expansion of mobile networks, broadband services, and internet connectivity in Mexico

10.6.5 REST OF LATIN AMERICA

11 COMPETITIVE LANDSCAPE

11.1 INTRODUCTION

11.2 STRATEGIES ADOPTED BY KEY PLAYERS/RIGHT TO WIN

TABLE 90 OVERVIEW OF STRATEGIES ADOPTED BY KEY NETWORK EMULATOR TECHNOLOGY VENDORS

11.3 MARKET SHARE ANALYSIS OF TOP PLAYERS

TABLE 91 NETWORK EMULATOR MARKET: DEGREE OF COMPETITION

11.4 HISTORIC REVENUE ANALYSIS

FIGURE 25 HISTORICAL THREE-YEAR REVENUE ANALYSIS OF LEADING NETWORK EMULATOR PROVIDERS, 2020–2022 (USD MILLION)

11.5 COMPANY EVALUATION MATRIX

11.5.1 STARS

11.5.2 EMERGING LEADERS

11.5.3 PERVASIVE PLAYERS

11.5.4 PARTICIPANTS

FIGURE 26 NETWORK EMULATOR MARKET (GLOBAL): COMPANY EVALUATION MATRIX, 2022

11.6 STARTUP/SME EVALUATION MATRIX, 2022

11.6.1 PROGRESSIVE COMPANIES

11.6.2 RESPONSIVE COMPANIES

11.6.3 DYNAMIC COMPANIES

11.6.4 STARTING BLOCKS

FIGURE 27 NETWORK EMULATOR MARKET (GLOBAL): STARTUP/SME
EVALUATION MATRIX, 2022

11.7 RANKING OF KEY MARKET PLAYERS IN NETWORK EMULATOR MARKET,
2022

FIGURE 28 RANKING OF KEY TECHNOLOGY PLAYERS, 2022

11.8 COMPETITIVE BENCHMARKING

TABLE 92 NETWORK EMULATOR MARKET: DETAILED LIST OF KEY
STARTUPS/SMES

TABLE 93 NETWORK EMULATOR MARKET: COMPETITIVE BENCHMARKING OF
KEY STARTUPS/SMES

TABLE 94 NETWORK EMULATOR MARKET: COMPETITIVE BENCHMARKING OF
MAJOR PLAYERS

11.9 COMPETITIVE SCENARIO

11.9.1 PRODUCT LAUNCHES

TABLE 95 PRODUCT LAUNCHES, 2019–2022

11.9.2 DEALS

TABLE 96 DEALS, 2019–2022

12 COMPANY PROFILES

(Business Overview, Products/Solutions/Services Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats))*

12.1 MAJOR PLAYERS

12.1.1 SPIRENT COMMUNICATIONS

TABLE 97 SPIRENT COMMUNICATIONS: BUSINESS OVERVIEW

FIGURE 29 SPIRENT COMMUNICATIONS: COMPANY SNAPSHOT

TABLE 98 SPIRENT COMMUNICATIONS: PRODUCTS/SOLUTIONS/SERVICES
OFFERED

TABLE 99 SPIRENT COMMUNICATIONS: PRODUCT LAUNCHES

TABLE 100 SPIRENT COMMUNICATIONS: DEALS

12.1.2 KEYSIGHT TECHNOLOGIES

TABLE 101 KEYSIGHT TECHNOLOGIES: BUSINESS OVERVIEW

FIGURE 30 KEYSIGHT TECHNOLOGIES: COMPANY SNAPSHOT

TABLE 102 KEYSIGHT TECHNOLOGIES: PRODUCTS/SOLUTIONS/SERVICES

OFFERED

TABLE 103 KEYSIGHT TECHNOLOGIES: PRODUCT LAUNCHES

TABLE 104 KEYSIGHT TECHNOLOGIES: DEALS

12.1.3 APPOSITE TECHNOLOGIES

TABLE 105 APPOSITE TECHNOLOGIES: BUSINESS OVERVIEW

TABLE 106 APPOSITE TECHNOLOGIES: PRODUCTS/SOLUTIONS/SERVICES

OFFERED

TABLE 107 APPOSITE TECHNOLOGIES: DEALS

12.1.4 CALNEX SOLUTIONS

TABLE 108 CALNEX SOLUTIONS: BUSINESS OVERVIEW

FIGURE 31 CALNEX SOLUTIONS: COMPANY SNAPSHOT

TABLE 109 CALNEX SOLUTIONS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 110 CALNEX SOLUTIONS: DEALS

12.1.5 VIAVI SOLUTIONS

TABLE 111 VIAVI SOLUTIONS: BUSINESS OVERVIEW

FIGURE 32 VIAVI SOLUTIONS: COMPANY SNAPSHOT

TABLE 112 VIAVI SOLUTIONS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

12.1.6 ROHDE & SCHWARZ

TABLE 113 ROHDE & SCHWARZ: BUSINESS OVERVIEW

TABLE 114 ROHDE & SCHWARZ: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 115 ROHDE & SCHWARZ: DEALS

12.1.7 POLARIS NETWORKS

TABLE 116 POLARIS NETWORKS: BUSINESS OVERVIEW

TABLE 117 POLARIS NETWORKS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

12.1.8 PACKETSTORM

TABLE 118 PACKETSTORM: BUSINESS OVERVIEW

TABLE 119 PACKETSTORM: PRODUCTS/SOLUTIONS/SERVICES OFFERED

12.1.9 SOLARWINDS

TABLE 120 SOLARWINDS: BUSINESS OVERVIEW

FIGURE 33 SOLARWINDS: COMPANY SNAPSHOT

TABLE 121 SOLARWINDS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

12.1.10 INTERWORKING LABS

TABLE 122 INTERWORKING LABS: BUSINESS OVERVIEW

TABLE 123 INTERWORKING LABS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

12.1.11 W2BI**12.1.12 GL COMMUNICATIONS****12.1.13 VALID8****12.1.14 ALDEC****12.1.15 MARBEN PRODUCTS**

12.2 SMES/STARTUPS

12.2.1 AUKUA

12.2.2 SIMNOVUS

12.2.3 EVE-NG PRO

12.2.4 GIGANET SYSTEMS

12.2.5 QOSMOTEC SOFTWARE SOLUTIONS GMBH

12.2.6 TETCOS

12.2.7 MODULO COMMUNICATIONS SYSTEMS

12.2.8 NIHON COMMUNICATIONS SYSTEMS

12.2.9 NETGIG SYSTEMS

*Details on Business Overview, Products/Solutions/Services Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

13 ADJACENT AND RELATED MARKETS

13.1 INTRODUCTION

13.1.1 LIMITATIONS

13.2 NETWORK MANAGEMENT SYSTEM (NMS) MARKET – GLOBAL FORECAST TO 2027

13.2.1 MARKET DEFINITION

13.2.2 MARKET OVERVIEW

13.2.2.1 Network management system market, by component

TABLE 124 NETWORK MANAGEMENT SYSTEM MARKET, BY COMPONENT, 2016–2021 (USD MILLION)

TABLE 125 NETWORK MANAGEMENT SYSTEM MARKET, BY COMPONENT, 2022–2027 (USD MILLION)

13.2.2.2 Network management system market, by solution

TABLE 126 NETWORK MANAGEMENT SYSTEM MARKET, BY SOLUTION, 2016–2021 (USD MILLION)

TABLE 127 NETWORK MANAGEMENT SYSTEM MARKET, BY SOLUTION, 2022–2027 (USD MILLION)

13.2.2.3 Network management system market, by end user

TABLE 128 NETWORK MANAGEMENT SYSTEM MARKET, BY END USER, 2016–2021 (USD MILLION)

TABLE 129 NETWORK MANAGEMENT SYSTEM MARKET, BY END USER, 2022–2027 (USD MILLION)

13.2.2.4 Network management system market, by vertical

TABLE 130 NETWORK MANAGEMENT SYSTEM MARKET, BY VERTICAL,
2016–2021 (USD MILLION)

TABLE 131 NETWORK MANAGEMENT SYSTEM MARKET, BY VERTICAL,
2022–2027 (USD MILLION)

13.2.2.5 Network management system market, by region

TABLE 132 NETWORK MANAGEMENT SYSTEM MARKET, BY REGION, 2016–2021
(USD MILLION)

TABLE 133 NETWORK MANAGEMENT SYSTEM MARKET, BY REGION, 2022–2027
(USD MILLION)

13.3 NETWORK TRAFFIC ANALYZER MARKET – GLOBAL FORECAST 2024

13.3.1 MARKET DEFINITION

13.3.2 MARKET OVERVIEW

13.3.2.1 Network traffic analyzer market, by component

TABLE 134 NETWORK TRAFFIC ANALYZER MARKET, BY COMPONENT,
2017–2024 (USD MILLION)

13.3.2.2 Network traffic analyzer market, by end user

TABLE 135 NETWORK TRAFFIC ANALYZER MARKET, BY END USER, 2017–2024
(USD MILLION)

TABLE 136 SERVICE PROVIDERS: NETWORK TRAFFIC ANALYZER MARKET, BY
TYPE, 2017–2024 (USD MILLION)

TABLE 137 ENTERPRISES: NETWORK TRAFFIC ANALYZER MARKET, BY
VERTICAL, 2017–2024 (USD MILLION)

13.3.2.3 Network traffic analyzer market, by region

TABLE 138 NETWORK TRAFFIC ANALYZER MARKET, BY REGION, 2017–2024
(USD MILLION)

14 APPENDIX

14.1 DISCUSSION GUIDE

14.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

14.3 CUSTOMIZATION OPTIONS

14.4 RELATED REPORTS

14.5 AUTHOR DETAILS

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