

Public Key Infrastructure (PKI) Market by Component (HSM, Solutions, and Services), Deployment Mode (Onpremises and Cloud), Organization Size, Vertical (BFSI, Healthcare, IT and Telecom), Application Region - Global Forecast to 2028

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Abstracts

The global public key infrastructure market is estimated to be worth USD 5.5 billion in 2023 and is projected to reach USD 13.8 billion by 2028, at a CAGR of 20.2% during the forecast period. The escalating volume and complexity of cyberattacks have made robust security a paramount concern for organizations, prompting increased demand for PKI's encryption, authentication, and digital signature capabilities. Regulatory compliance requirements, such as GDPR and HIPAA, mandate secure data handling and encryption, compelling organizations to adopt PKI solutions. The rise of digital transformation initiatives, remote work, and the Internet of Things further fuel the need for PKI to safeguard digital interactions, protect sensitive data, and establish trust in online transactions.

"By offering, the services segment to register the highest growth rate during the forecast period"

As organizations increasingly prioritize robust security and trust solutions, they encounter the intricate complexities associated with PKI implementation and management. These complexities include cryptographic key management, digital certificate issuance, secure communication, and staying ahead of evolving cybersecurity threats. PKI service providers offer indispensable expertise and support, making the deployment of PKI smoother and more secure. Their role extends to customizing PKI solutions to align with the unique infrastructure of each organization, seamlessly integrating PKI into existing systems, and providing managed PKI services



that streamline the management of digital certificates and keys. Moreover, these service providers help organizations navigate the ever-evolving threat landscape and maintain compliance with stringent regulatory standards. In an era where cybersecurity is paramount, the services segment serves as a trusted partner for organizations seeking to bolster their security posture and maximize the benefits of PKI while ensuring operational efficiency.

"By deployment mode, the cloud segment to register the highest growth rate during the forecast period"

The anticipated highest growth rate in the cloud deployment segment of the PKI market during the forecast period reflects a notable shift towards cloud-based solutions in the realm of cybersecurity and digital trust. This trend aligns with the broader industry movement toward cloud adoption, driven by several key factors. Cloud-based PKI solutions offer organizations increased scalability, flexibility, and accessibility, allowing them to adapt quickly to evolving digital landscapes. The cloud deployment mode empowers organizations to harness PKI's encryption, authentication, and digital signature capabilities without the need for extensive on-premises infrastructure, making it particularly attractive for businesses seeking cost-effective and agile security solutions. The growing reliance on remote work models and the need for secure, remote access to digital resources further underscore the value of cloud-based PKI. As organizations navigate the dynamic digital environment, cloud-based PKI emerges as a dynamic driver of trust and security, underpinning its remarkable growth within the market.

"Asia Pacific to register the highest growth rate during the forecast period"

During the forecast period, the Asia Pacific region's projected highest growth rate in the PKI market reflects a compelling shift towards bolstering digital security and trust across diverse industries. Several influential factors fuel this trend. The region is experiencing a rapid surge in digitalization, with businesses, governments, and individuals embracing digital technologies at an unprecedented pace. As digital footprints expand, the demand for robust cybersecurity solutions like PKI intensifies to secure online transactions, safeguard critical data, and ensure trustworthy digital interactions. The Asia Pacific region's burgeoning population of internet users and the thriving e-commerce ecosystem are pivotal drivers. The increasing reliance on online platforms for commerce, communication, and financial transactions underscores the need for PKI's security measures, which are fundamental to protecting sensitive information, facilitating secure payments, and establishing trust in digital identities.



Breakdown of primaries

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

By Company Type: Tier 1 – 20%, Tier 2 – 57%, and Tier 3 – 33%

By Designation: C-level – 40%, Managers and Others – 60%

By Region: North America – 35%, Europe – 20%, Asia Pacific – 45%.

The major players in the public key infrastructure market are Thales (France), Entrust Datacard (US), DigiCert (US), ManageEngine (US), Microsoft (US), HID Global (US), Google (US), AWS (US), AppViewX (US), Venafi (US), Nexus (Sweden), Sectigo (US), Futurex (US), GlobalSign (US), WISeKey (Switzerland), Cygnacom Solutions (US), Keyfactor (US), SECARDEO GmbH (Germany), Blue Ridge Networks (US), Softlock (Egypt), SSL.com (US), LAWtrust (South Africa), SecureMetric (Malaysia), Stormshield (France), and Enigma Information Security Systems (US).

The study includes an in-depth competitive analysis of these key players in the public key infrastructure market, with their company profiles, recent developments, and key market strategies.

Research Coverage

The market study covers the PKI market size across segments. It aims at estimating the market size and the growth potential of this market across different segments by offering, by deployment mode, by organization size, by application, by vertical, and by region. The study also includes an in-depth competitive analysis of the key market players, their company profiles, key observations related to product and business offerings, recent developments, and key market strategies.

Reasons to buy this report

The report will help the market leaders/new entrants with information on the closest approximations of the revenue numbers for the overall public key infrastructure market and the 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. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

As businesses recognize the pivotal role of public key infrastructure, there is a mounting demand for comprehensive public key infrastructure solutions. These encompass a range of tools enabling organizations to achieve authentic and secure connectivity. While challenges like the need for alignment and technology integration are acknowledged, the report underscores the dynamic landscape of public key infrastructure-centric technologies and evolving market trends, the report also offers valuable insights into the future trajectory of the public key infrastructure market.

Product Development/Innovation: Detailed insights on coming technologies, R&D activities, and product & solution launches in the public key infrastructure market

Market Development: Comprehensive information about lucrative markets – the report analyses the public key infrastructure market across varied regions.

Market Diversification: Exhaustive information about new products & solutions being developed, untapped geographies, recent developments, and investments in the public key infrastructure market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Thales (France), Entrust Datacard (US), DigiCert (US), ManageEngine (US), Microsoft (US), HID Global (US), Google (US), AWS (US), AppViewX (US), Venafi (US), Nexus (Sweden), Sectigo (US), Futurex (US), GlobalSign (US), WISeKey (Switzerland), Cygnacom Solutions (US), Keyfactor (US), SECARDEO GmbH (Germany), Blue Ridge Networks (US), Softlock (Egypt), SSL.com (US), LAWtrust (South Africa), SecureMetric (Malaysia), Stormshield (France), and Enigma Information Security Systems (US).



Contents

1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
 - 1.2.1 INCLUSIONS & EXCLUSIONS
- 1.3 STUDY SCOPE
 - 1.3.1 MARKET SEGMENTATION
 - 1.3.2 REGIONS COVERED
- 1.4 YEARS CONSIDERED
- 1.5 CURRENCY CONSIDERED

TABLE 1 USD EXCHANGE RATES, 2020–2022

- 1.6 STAKEHOLDERS
- 1.7 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 1 RESEARCH DESIGN

- 2.1.1 SECONDARY DATA
- 2.1.1.1 Key data from secondary sources
- 2.1.2 PRIMARY DATA
 - 2.1.2.1 Breakup of primary profiles
 - 2.1.2.2 Key industry insights
- 2.2 DATA TRIANGULATION

FIGURE 2 DATA TRIANGULATION

2.3 MARKET SIZE ESTIMATION

FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY, APPROACH 1 (SUPPLY

SIDE): REVENUE OF HARDWARE SECURITY MODULES, SOLUTIONS, AND

SERVICES IN PUBLIC KEY INFRASTRUCTURE MARKET

FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 1, SUPPLY-SIDE ANALYSIS

FIGURE 5 MARKET ESTIMATION APPROACH: SUPPLY-SIDE ANALYSIS (COMPANY REVENUE ESTIMATION [ILLUSTRATION OF REVENUE ESTIMATION

FOR THALES])

FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 2, BOTTOM-UP (DEMAND SIDE), BY VERTICAL

2.4 MARKET FORECAST



TABLE 2 FACTOR ANALYSIS
2.5 RESEARCH ASSUMPTIONS
2.6 LIMITATIONS AND RISK ASSESSMENT
2.7 RECESSION IMPACT ANALYSIS
FIGURE 7 RECESSION IMPACT ANALYSIS

3 EXECUTIVE SUMMARY

FIGURE 8 PUBLIC KEY INFRASTRUCTURE MARKET TO WITNESS SIGNIFICANT GROWTH DURING FORECAST PERIOD

FIGURE 9 PUBLIC KEY INFRASTRUCTURE MARKET: MAJOR SUBSEGMENTS, 2023–2028

FIGURE 10 NORTH AMERICA TO ACCOUNT FOR LARGEST SHARE IN 2023

4 PREMIUM INSIGHTS

- 4.1 OPPORTUNITIES FOR PLAYERS IN PUBLIC KEY INFRASTRUCTURE MARKET FIGURE 11 RISING CASES OF MALWARE AND FILE-BASED ATTACKS AND STRINGENT REGULATORY NORMS TO DRIVE MARKET
- 4.2 PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2023 FIGURE 12 SOLUTIONS SEGMENT TO ACCOUNT FOR LARGEST SHARE DURING FORECAST PERIOD
- 4.3 PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2023 VS. 2028 FIGURE 13 PROFESSIONAL SERVICES SEGMENT TO ACCOUNT FOR LARGER MARKET DURING FORECAST PERIOD
- 4.4 PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2023 VS. 2028
- FIGURE 14 ON-PREMISES SEGMENT TO LEAD MARKET DURING FORECAST PERIOD
- 4.5 PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2023 VS. 2028
- FIGURE 15 LARGE ENTERPRISES SEGMENT TO LEAD MARKET DURING FORECAST PERIOD
- 4.6 PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2023 VS. 2028 FIGURE 16 BFSI SEGMENT TO ACCOUNT FOR LARGEST MARKET BY 2028 4.7 MARKET INVESTMENT SCENARIO

FIGURE 17 ASIA PACIFIC TO EMERGE AS BEST MARKET FOR INVESTMENT

5 MARKET OVERVIEW AND INDUSTRY TRENDS



5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 18 PKI MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

5.2.1 DRIVERS

- 5.2.1.1 Stringent regulatory standards and data privacy compliances
- 5.2.1.2 Rising concerns pertaining to loss of critical data
- 5.2.1.3 Increase in penetration of online channels
- 5.2.1.4 Rise in malware and file-based attacks

5.2.2 RESTRAINTS

- 5.2.2.1 Technical complexities involved
- 5.2.2.2 Running private certificate authorities or using self-signed certificates

5.2.3 OPPORTUNITIES

- 5.2.3.1 Exponential increase in adoption of IoT across industry verticals
- 5.2.3.2 Proliferation of cloud-based and virtualization technologies

5.2.4 CHALLENGES

- 5.2.4.1 Lack of awareness among organizations about importance of PKI certificates
- 5.2.4.2 Limited expertise and resources for deployment of PKI

FIGURE 19 TOP CHALLENGES IN PKI DEPLOYMENT AND MANAGEMENT, 2018

5.2.4.3 Entrenched traditional business practices

5.3 INDUSTRY TRENDS

- 5.3.1 PKI MARKET EVOLUTION
- 5.3.2 ECOSYSTEM ANALYSIS

FIGURE 20 KEY COMPANIES' ECOSYSTEM ANALYSIS

TABLE 3 ROLE OF PLAYERS IN MARKET ECOSYSTEM

5.3.3 TECHNOLOGY ROADMAP

- 5.3.3.1 Short-term roadmap (2023–2025)
- 5.3.3.2 Mid-term roadmap (2026–2028)
- 5.3.3.3 Long-term roadmap (2029–2030)

5.3.4 CASE STUDY ANALYSIS

- 5.3.4.1 Finance in Motion collaborated with GlobalSign to supplement Keytalk's existing certificate and management services
 - 5.3.4.2 University of Colorado chose Sectigo to manage its digital certificates
- 5.3.4.3 Emudhra helped Mauritius government implement National Public Key Infrastructure

5.3.5 VALUE CHAIN ANALYSIS

FIGURE 21 VALUE CHAIN ANALYSIS

5.3.6 REGULATORY LANDSCAPE



- 5.3.6.1 Regulatory bodies, government agencies, and other organizations
- 5.3.6.2 General Data Protection Regulation
- 5.3.6.3 Personal Information Protection and Electronic Documents Act (PIPEDA)
- 5.3.6.4 Cloud Security Alliance Security Trust Assurance and Risk (STAR)
- 5.3.6.5 SOC 2
- 5.3.6.6 Digital Millennium Copyright Act (DMCA)
- 5.3.6.7 Anti-Cybersquatting Consumer Protection Act (ACPA)
 - 5.3.6.7.1 US
- 5.3.7 PATENT ANALYSIS
- TABLE 4 TOP 20 PATENT OWNERS (US) IN LAST 10 YEARS

FIGURE 22 NUMBER OF PATENTS GRANTED, 2013-2022

FIGURE 23 TOP 10 COMPANIES WITH HIGHEST NUMBER OF PATENT APPLICATIONS

5.3.8 KEY CONFERENCES & EVENTS, 2023-2024

TABLE 5 KEY CONFERENCES & EVENTS, 2023-2024

5.3.9 AVERAGE SELLING PRICE ANALYSIS

TABLE 6 AVERAGE SELLING PRICE TRENDS

5.3.10 PORTER'S FIVE FORCES ANALYSIS

TABLE 7 IMPACT OF PORTER'S FORCES ON PKI MARKET

FIGURE 24 PORTER'S FIVE FORCES MODEL

- 5.3.10.1 Threat of new entrants
- 5.3.10.2 Threat of substitutes
- 5.3.10.3 Bargaining power of buyers
- 5.3.10.4 Bargaining power of suppliers
- 5.3.10.5 Intensity of competitive rivalry
- 5.3.11 KEY STAKEHOLDERS & BUYING CRITERIA
 - 5.3.11.1 Key Stakeholders in buying criteria

FIGURE 25 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP 3 VERTICALS

TABLE 8 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP 3 VERTICALS

5.3.11.2 Buying criteria

FIGURE 26 KEY BUYING CRITERIA FOR TOP 3 VERTICALS

TABLE 9 KEY BUYING CRITERIA FOR TOP 3 VERTICALS

- 5.3.12 TECHNOLOGY ANALYSIS
 - 5.3.12.1 Public key infrastructure and Internet of things
 - 5.3.12.2 Public key infrastructure and cloud
 - 5.3.12.3 Public key infrastructure and blockchain
- 5.3.13 CURRENT AND EMERGING BUSINESS MODELS



- 5.3.13.1 Managed PKI
- 5.3.13.2 Federated PKI
- 5.3.13.3 Cloud-based PKI
- 5.3.13.4 On-premises PKI
- 5.3.14 BEST PRACTICES IN PKI MARKET
 - 5.3.14.1 Security by design
 - 5.3.14.2 Secure key management
 - 5.3.14.3 Certificate lifecycle management
 - 5.3.14.4 Monitoring and incident response
 - 5.3.14.5 Redundancy and disaster recovery
- 5.3.15 TRENDS AND DISRUPTIONS IMPACTING CUSTOMERS

FIGURE 27 TRENDS AND DISRUPTIONS IMPACTING CUSTOMERS

- 5.3.15.1 Quantum computing threats
- 5.3.15.2 Blockchain and decentralization
- 5.3.15.3 IoT and device identity
- 5.3.15.4 Cloud-based PKI
- 5.3.15.5 Regulatory compliance
- 5.3.15.6 Zero-trust architecture
- 5.3.15.7 Remote work and secure access
- 5.3.15.8 Al and automation
- 5.3.15.9 Open-source PKI solutions
- 5.3.16 HS CODES

TABLE 10 EXPORT SCENARIO FOR HS CODE: 847330, BY COUNTRY, 2020–2022 TABLE 11 IMPORT SCENARIO FOR HS CODE: 847330, BY COUNTRY, 2020–2022

6 PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING

6.1 INTRODUCTION

FIGURE 28 SOLUTIONS SEGMENT TO ACCOUNT FOR LARGEST MARKET SIZE DURING FORECAST PERIOD

TABLE 12 PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 13 PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

- 6.2 HARDWARE SECURITY MODULES
- 6.2.1 INCREASING DEMAND FOR SECURE HARDWARE-BACKED SOLUTIONS TO DRIVE GROWTH OF HARDWARE SECURITY MODELS

TABLE 14 HARDWARE SECURITY MODULES: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2017–2022 (USD MILLION)



TABLE 15 HARDWARE SECURITY MODULES: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2023–2028 (USD MILLION)

6.2.2 HARDWARE SECURITY MODULES: PUBLIC KEY INFRASTRUCTURE MARKET DRIVERS

6.3 SOLUTIONS

6.3.1 GROWING NEED FOR COMPREHENSIVE SECURITY SOLUTIONS IN EVOLVING DIGITAL LANDSCAPE TO DRIVE SOLUTIONS SEGMENT TABLE 16 SOLUTIONS: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 17 SOLUTIONS: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2023–2028 (USD MILLION)

6.3.2 SOLUTIONS: PUBLIC KEY INFRASTRUCTURE MARKET DRIVERS 6.4 SERVICES

6.4.1 INCREASING COMPLEXITY OF PKI IMPLEMENTATION AND NEED FOR EXPERT GUIDANCE AND SUPPORT TO DRIVE SERVICES SEGMENT

6.4.2 SERVICES: PUBLIC KEY INFRASTRUCTURE MARKET DRIVERS
TABLE 18 PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2017–2022
(USD MILLION)

TABLE 19 PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2023–2028 (USD MILLION)

6.4.3 PROFESSIONAL SERVICES

TABLE 20 PROFESSIONAL SERVICES: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 21 PROFESSIONAL SERVICES: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2023–2028 (USD MILLION)

6.4.4 MANAGED SERVICES

TABLE 22 MANAGED SERVICES: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 23 MANAGED SERVICES: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2023–2028 (USD MILLION)

7 PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE

7.1 INTRODUCTION

FIGURE 29 ON-PREMISES SEGMENT TO HOLD LARGER MARKET SIZE DURING FORECAST PERIOD

TABLE 24 PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 25 PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE,



2023-2028 (USD MILLION)

7.2 ON-PREMISES

7.2.1 DEMAND FOR DATA CONTROL, COMPLIANCE, AND SECURITY IN INDUSTRIES TO DRIVE GROWTH OF ON-PREMISES SEGMENT

7.2.2 ON-PREMISES: PUBLIC KEY INFRASTRUCTURE MARKET DRIVERS TABLE 26 ON-PREMISES: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 27 ON-PREMISES: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2023–2028 (USD MILLION)

7.3 CLOUD

7.3.1 NEED FOR SCALABILITY, COST-EFFICIENCY, AND FLEXIBILITY IN MODERN IT INFRASTRUCTURE TO DRIVE GROWTH OF CLOUD SEGMENT 7.3.2 CLOUD: PUBLIC KEY INFRASTRUCTURE MARKET DRIVERS TABLE 28 CLOUD: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 29 CLOUD: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2023–2028 (USD MILLION)

8 PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE

8.1 INTRODUCTION

FIGURE 30 LARGE ENTERPRISES SEGMENT TO HOLD LARGER MARKET SIZE DURING FORECAST PERIOD

TABLE 30 PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2017–2022 (USD MILLION)

TABLE 31 PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2023–2028 (USD MILLION)

8.2 LARGE ENTERPRISES

8.2.1 GROWING COMPLEXITY OF CYBERSECURITY THREATS AND REGULATORY COMPLIANCE REQUIREMENTS TO DRIVE LARGE ENTERPRISES TO ADOPT ROBUST PKI SOLUTIONS

8.2.2 LARGE ENTERPRISES: PUBLIC KEY INFRASTRUCTURE MARKET DRIVERS TABLE 32 LARGE ENTERPRISES: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 33 LARGE ENTERPRISES: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2023–2028 (USD MILLION)

- 8.3 SMALL AND MEDIUM-SIZED ENTERPRISES
- 8.3.1 INCREASING IMPORTANCE OF DIGITAL SECURITY AND NEED FOR COST-EFFECTIVE SOLUTIONS TO DRIVE SMES TO EMBRACE PKI



8.3.2 SMALL AND MEDIUM-SIZED ENTERPRISES: PUBLIC KEY INFRASTRUCTURE MARKET DRIVERS

TABLE 34 SMES: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION,

2017-2022 (USD MILLION)

TABLE 35 SMES: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION,

2023-2028 (USD MILLION)

9 PUBLIC KEY INFRASTRUCTURE MARKET, BY APPLICATION

9.1 INTRODUCTION

FIGURE 31 AUTHENTICATION SEGMENT TO HOLD A LARGER MARKET SIZE DURING THE FORECAST PERIOD

TABLE 36 PUBLIC KEY INFRASTRUCTURE MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 37 PUBLIC KEY INFRASTRUCTURE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

- 9.2 WEB BROWSING SECURITY
- 9.2.1 ESCALATING FREQUENCY OF WEB-BASED THREATS AND IMPERATIVE OF SAFEGUARDING ONLINE INTERACTIONS TO DRIVE GROWTH
- 9.2.2 WEB BROWSING SECURITY: PUBLIC KEY INFRASTRUCTURE MARKET DRIVERS

TABLE 38 WEB BROWSING SECURITY: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 39 WEB BROWSING SECURITY: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2023–2028 (USD MILLION)

- 9.3 EMAIL SECURITY
- 9.3.1 RISING VOLUME OF EMAIL-BASED CYBER THREATS AND CRITICAL NEED FOR SECURING CONFIDENTIAL COMMUNICATIONS TO DRIVE SEGMENT
- 9.3.2 EMAIL SECURITY: PUBLIC KEY INFRASTRUCTURE MARKET DRIVERS TABLE 40 EMAIL SECURITY: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 41 EMAIL SECURITY: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2023–2028 (USD MILLION)

- 9.4 SECURE COMMUNICATION
- 9.4.1 GROWING DEMAND FOR SECURE AND PRIVATE COMMUNICATION CHANNELS IN BUSINESS AND PERSONAL CONTEXTS TO DRIVE SEGMENT 9.4.2 SECURE COMMUNICATION: PUBLIC KEY INFRASTRUCTURE MARKET DRIVERS

TABLE 42 SECURE COMMUNICATION: PUBLIC KEY INFRASTRUCTURE MARKET.



BY REGION, 2017–2022 (USD MILLION)

TABLE 43 SECURE COMMUNICATION: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2023–2028 (USD MILLION)

9.5 AUTHENTICATION

9.5.1 INCREASING EMPHASIS ON ROBUST USER AND DEVICE AUTHENTICATION, PARTICULARLY IN REMOTE AND DIGITAL ENVIRONMENTS, TO DRIVE SEGMENT

9.5.2 AUTHENTICATION: PUBLIC KEY INFRASTRUCTURE MARKET DRIVERS TABLE 44 AUTHENTICATION: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 45 AUTHENTICATION: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2023–2028 (USD MILLION)

10 PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL

10.1 INTRODUCTION

FIGURE 32 BANKING, FINANCIAL SERVICES, AND INSURANCE SEGMENT TO ACCOUNT FOR LARGEST MARKET SIZE DURING FORECAST PERIOD TABLE 46 PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 47 PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

10.2 BANKING, FINANCIAL SERVICES, AND INSURANCE

10.2.1 NEED FOR STRINGENT DATA PROTECTION, REGULATORY
COMPLIANCE, AND SECURE FINANCIAL TRANSACTIONS TO DRIVE SEGMENT
10.2.2 BANKING, FINANCIAL SERVICES, AND INSURANCE: PUBLIC KEY
INFRASTRUCTURE MARKET DRIVERS

TABLE 48 BFSI: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 49 BFSI: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2023–2028 (USD MILLION)

10.3 GOVERNMENT AND DEFENSE

10.3.1 IMPERATIVE OF NATIONAL SECURITY, DATA PROTECTION, AND SECURE GOVERNMENT OPERATIONS TO DRIVE SEGMENT

10.3.2 GOVERNMENT AND DEFENSE: PUBLIC KEY INFRASTRUCTURE MARKET DRIVERS

TABLE 50 GOVERNMENT AND DEFENSE: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 51 GOVERNMENT AND DEFENSE: PUBLIC KEY INFRASTRUCTURE



MARKET, BY REGION, 2023–2028 (USD MILLION) 10.4 HEALTHCARE

10.4.1 CRITICAL NEED FOR SAFEGUARDING PATIENT DATA, COMPLYING WITH HEALTHCARE REGULATIONS, AND ENSURING SECURE TELEHEALTH SERVICES TO DRIVE SEGMENT

10.4.2 HEALTHCARE: PUBLIC KEY INFRASTRUCTURE MARKET DRIVERS TABLE 52 HEALTHCARE: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 53 HEALTHCARE: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2023–2028 (USD MILLION)

10.5 IT AND TELECOM

10.5.1 GROWING DEMAND FOR SECURE AND EFFICIENT DATA COMMUNICATION, NETWORK INTEGRITY, AND DIGITAL SERVICES TO DRIVE SEGMENT

10.5.2 IT AND TELECOM: PUBLIC KEY INFRASTRUCTURE MARKET DRIVERS TABLE 54 IT AND TELECOM: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 55 IT AND TELECOM: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2023–2028 (USD MILLION)

10.6 RETAIL

10.6.1 INCREASING RELIANCE ON ECOMMERCE, SECURE PAYMENT PROCESSING, AND CUSTOMER DATA PROTECTION TO DRIVE RETAIL VERTICAL

10.6.2 RETAIL: PUBLIC KEY INFRASTRUCTURE MARKET DRIVERS TABLE 56 RETAIL: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 57 RETAIL: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2023–2028 (USD MILLION)

10.7 MANUFACTURING

10.7.1 NEED FOR SECURING INTELLECTUAL PROPERTY, SUPPLY CHAIN INTEGRITY, AND OPERATIONAL DATA TO DRIVE MANUFACTURING VERTICAL 10.7.2 MANUFACTURING: PUBLIC KEY INFRASTRUCTURE MARKET DRIVERS TABLE 58 MANUFACTURING: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 59 MANUFACTURING: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2023–2028 (USD MILLION)

10.8 OTHER VERTICALS

10.8.1 OTHER VERTICALS: PUBLIC KEY INFRASTRUCTURE MARKET DRIVERS TABLE 60 OTHER VERTICALS: PUBLIC KEY INFRASTRUCTURE MARKET, BY



REGION, 2017-2022 (USD MILLION)

TABLE 61 OTHER VERTICALS: PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2023–2028 (USD MILLION)

11 PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION

11.1 INTRODUCTION

TABLE 62 PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 63 PUBLIC KEY INFRASTRUCTURE MARKET, BY REGION, 2023–2028 (USD MILLION)

11.2 NORTH AMERICA

11.2.1 NORTH AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET DRIVERS

11.2.2 NORTH AMERICA: RECESSION IMPACT

11.2.3 NORTH AMERICA: REGULATORY LANDSCAPE

TABLE 64 NORTH AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET REGULATIONS/ASSOCIATIONS

TABLE 65 NORTH AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET COMPLIANCE AND DESCRIPTION

FIGURE 33 NORTH AMERICA: MARKET SNAPSHOT

TABLE 66 NORTH AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 67 NORTH AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 68 NORTH AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2017–2022 (USD MILLION)

TABLE 69 NORTH AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 70 NORTH AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 71 NORTH AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 72 NORTH AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2017–2022 (USD MILLION)

TABLE 73 NORTH AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2023–2028 (USD MILLION)

TABLE 74 NORTH AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 75 NORTH AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY



APPLICATION, 2023-2028 (USD MILLION)

TABLE 76 NORTH AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 77 NORTH AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

TABLE 78 NORTH AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY COUNTRY, 2017–2022 (USD MILLION)

TABLE 79 NORTH AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

11.2.4 US

TABLE 80 US: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 81 US: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 82 US: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2017–2022 (USD MILLION)

TABLE 83 US: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 84 US: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 85 US: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 86 US: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2017–2022 (USD MILLION)

TABLE 87 US: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2023–2028 (USD MILLION)

TABLE 88 US: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 89 US: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

11.2.5 CANADA

TABLE 90 CANADA: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 91 CANADA: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 92 CANADA: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2017–2022 (USD MILLION)

TABLE 93 CANADA: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2023–2028 (USD MILLION)



TABLE 94 CANADA: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 95 CANADA: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 96 CANADA: PUBLIC KEY INFRASTRUCTURE MARKET, BY

ORGANIZATION SIZE, 2017–2022 (USD MILLION)

TABLE 97 CANADA: PUBLIC KEY INFRASTRUCTURE MARKET, BY

ORGANIZATION SIZE, 2023–2028 (USD MILLION)

TABLE 98 CANADA: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 99 CANADA: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

11.3 EUROPE

11.3.1 EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET DRIVERS

11.3.2 EUROPE: RECESSION IMPACT

11.3.3 EUROPE: REGULATORY LANDSCAPE

TABLE 100 EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET

ASSOCIATIONS/REGULATIONS

TABLE 101 EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET COMPLIANCE TABLE 102 EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 103 EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 104 EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2017–2022 (USD MILLION)

TABLE 105 EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 106 EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET, BY

DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 107 EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET, BY

DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 108 EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET, BY

ORGANIZATION SIZE, 2017–2022 (USD MILLION)

TABLE 109 EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET, BY

ORGANIZATION SIZE, 2023–2028 (USD MILLION)

TABLE 110 EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET, BY

APPLICATION, 2017-2022 (USD MILLION)

TABLE 111 EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET, BY

APPLICATION, 2023–2028 (USD MILLION)



TABLE 112 EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 113 EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

TABLE 114 EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET, BY COUNTRY, 2017–2022 (USD MILLION)

TABLE 115 EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

11.3.4 UK

TABLE 116 UK: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 117 UK: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 118 UK: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2017–2022 (USD MILLION)

TABLE 119 UK: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 120 UK: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 121 UK: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 122 UK: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2017–2022 (USD MILLION)

TABLE 123 UK: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2023–2028 (USD MILLION)

TABLE 124 UK: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 125 UK: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

11.3.5 GERMANY

TABLE 126 GERMANY: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 127 GERMANY: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 128 GERMANY: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2017–2022 (USD MILLION)

TABLE 129 GERMANY: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 130 GERMANY: PUBLIC KEY INFRASTRUCTURE MARKET, BY



DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 131 GERMANY: PUBLIC KEY INFRASTRUCTURE MARKET, BY

DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 132 GERMANY: PUBLIC KEY INFRASTRUCTURE MARKET, BY

ORGANIZATION SIZE, 2017–2022 (USD MILLION)

TABLE 133 GERMANY: PUBLIC KEY INFRASTRUCTURE MARKET, BY

ORGANIZATION SIZE, 2023-2028 (USD MILLION)

TABLE 134 GERMANY: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL,

2017-2022 (USD MILLION)

TABLE 135 GERMANY: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL,

2023-2028 (USD MILLION)

11.3.6 FRANCE

TABLE 136 FRANCE: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING,

2017-2022 (USD MILLION)

TABLE 137 FRANCE: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING,

2023-2028 (USD MILLION)

TABLE 138 FRANCE: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE,

2017-2022 (USD MILLION)

TABLE 139 FRANCE: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE,

2023-2028 (USD MILLION)

TABLE 140 FRANCE: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT

MODE, 2017–2022 (USD MILLION)

TABLE 141 FRANCE: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT

MODE, 2023-2028 (USD MILLION)

TABLE 142 FRANCE: PUBLIC KEY INFRASTRUCTURE MARKET, BY

ORGANIZATION SIZE, 2017–2022 (USD MILLION)

TABLE 143 FRANCE: PUBLIC KEY INFRASTRUCTURE MARKET, BY

ORGANIZATION SIZE, 2023–2028 (USD MILLION)

TABLE 144 FRANCE: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL.

2017-2022 (USD MILLION)

TABLE 145 FRANCE: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL,

2023-2028 (USD MILLION)

11.3.7 REST OF EUROPE

TABLE 146 REST OF EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET, BY

OFFERING, 2017–2022 (USD MILLION)

TABLE 147 REST OF EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET, BY

OFFERING, 2023-2028 (USD MILLION)

TABLE 148 REST OF EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET, BY

SERVICE, 2017–2022 (USD MILLION)



TABLE 149 REST OF EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 150 REST OF EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 151 REST OF EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 152 REST OF EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2017–2022 (USD MILLION)

TABLE 153 REST OF EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2023–2028 (USD MILLION)

TABLE 154 REST OF EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 155 REST OF EUROPE: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

11.4 ASIA PACIFIC

11.4.1 ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET DRIVERS

11.4.2 ASIA PACIFIC: RECESSION IMPACT

11.4.3 ASIA PACIFIC: REGULATORY LANDSCAPE

TABLE 156 ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET ASSOCIATIONS/REGULATIONS

TABLE 157 ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET COMPLIANCE

FIGURE 34 ASIA PACIFIC: MARKET SNAPSHOT

TABLE 158 ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 159 ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 160 ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2017–2022 (USD MILLION)

TABLE 161 ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 162 ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 163 ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 164 ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2017–2022 (USD MILLION)

TABLE 165 ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2023–2028 (USD MILLION)



TABLE 166 ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 167 ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 168 ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 169 ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

TABLE 170 ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET, BY COUNTRY, 2017–2022 (USD MILLION)

TABLE 171 ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

11.4.4 INDIA

TABLE 172 INDIA: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 173 INDIA: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 174 INDIA: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2017–2022 (USD MILLION)

TABLE 175 INDIA: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 176 INDIA: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 177 INDIA: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 178 INDIA: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2017–2022 (USD MILLION)

TABLE 179 INDIA: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2023–2028 (USD MILLION)

TABLE 180 INDIA: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 181 INDIA: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

11.4.5 CHINA

TABLE 182 CHINA: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 183 CHINA: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 184 CHINA: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE,



2017-2022 (USD MILLION)

TABLE 185 CHINA: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE,

2023-2028 (USD MILLION)

TABLE 186 CHINA: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 187 CHINA: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 188 CHINA: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2017–2022 (USD MILLION)

TABLE 189 CHINA: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2023–2028 (USD MILLION)

TABLE 190 CHINA: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 191 CHINA: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

11.4.6 JAPAN

TABLE 192 JAPAN: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 193 JAPAN: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 194 JAPAN: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2017–2022 (USD MILLION)

TABLE 195 JAPAN: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 196 JAPAN: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 197 JAPAN: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 198 JAPAN: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2017–2022 (USD MILLION)

TABLE 199 JAPAN: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2023–2028 (USD MILLION)

TABLE 200 JAPAN: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 201 JAPAN: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

11.4.7 REST OF ASIA PACIFIC

TABLE 202 REST OF ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2017–2022 (USD MILLION)



TABLE 203 EST OF ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 204 REST OF ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2017–2022 (USD MILLION)

TABLE 205 REST OF ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 206 REST OF ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 207 REST OF ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 208 REST OF ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2017–2022 (USD MILLION)

TABLE 209 REST OF ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2023–2028 (USD MILLION)

TABLE 210 REST OF ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 211 REST OF ASIA PACIFIC: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

11.5 MIDDLE EAST & AFRICA

11.5.1 MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET DRIVERS

11.5.2 MIDDLE EAST & AFRICA: RECESSION IMPACT

11.5.3 MIDDLE EAST & AFRICA: REGULATORY LANDSCAPE

TABLE 212 MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET REGULATIONS/ ASSOCIATIONS

TABLE 213 MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET COMPLIANCE AND DESCRIPTION

TABLE 214 MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 215 MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 216 MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2017–2022 (USD MILLION)

TABLE 217 MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 218 MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 219 MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)



TABLE 220 MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2017–2022 (USD MILLION)

TABLE 221 MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2023–2028 (USD MILLION)

TABLE 222 MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 223 MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 224 MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 225 MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

TABLE 226 MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY COUNTRY, 2017–2022 (USD MILLION)

TABLE 227 MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

11.5.4 UNITED ARAB EMIRATES

TABLE 228 UNITED ARAB EMIRATES: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 229 UNITED ARAB EMIRATES: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 230 UNITED ARAB EMIRATES: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2017–2022 (USD MILLION)

TABLE 231 UNITED ARAB EMIRATES: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 232 UNITED ARAB EMIRATES: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 233 UNITED ARAB EMIRATES: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 234 UNITED ARAB EMIRATES: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2017–2022 (USD MILLION)

TABLE 235 UNITED ARAB EMIRATES: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2023–2028 (USD MILLION)

TABLE 236 UNITED ARAB EMIRATES: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 237 UNITED ARAB EMIRATES: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

11.5.5 SOUTH AFRICA

TABLE 238 SOUTH AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY



OFFERING, 2017-2022 (USD MILLION)

TABLE 239 SOUTH AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 240 SOUTH AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2017–2022 (USD MILLION)

TABLE 241 SOUTH AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 242 SOUTH AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 243 SOUTH AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 244 SOUTH AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2017–2022 (USD MILLION)

TABLE 245 SOUTH AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2023–2028 (USD MILLION)

TABLE 246 SOUTH AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 247 SOUTH AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

11.5.6 REST OF MIDDLE EAST & AFRICA

TABLE 248 REST OF MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 249 REST OF MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 250 REST OF MIDDLE EAST AND AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2017–2022 (USD MILLION)

TABLE 251 REST OF MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 252 REST OF MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 253 REST OF MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 254 REST OF MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2017–2022 (USD MILLION)

TABLE 255 REST OF MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2023–2028 (USD MILLION)

TABLE 256 REST OF MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 257 REST OF MIDDLE EAST & AFRICA: PUBLIC KEY INFRASTRUCTURE



MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

11.6 LATIN AMERICA

11.6.1 LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET DRIVERS

11.6.2 LATIN AMERICA: RECESSION IMPACT

11.6.3 LATIN AMERICA: REGULATORY LANDSCAPE

TABLE 258 LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET REGULATIONS/ASSOCIATIONS

TABLE 259 LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET COMPLIANCE AND DESCRIPTION

TABLE 260 LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 261 LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 262 LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2017–2022 (USD MILLION)

TABLE 263 LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 264 LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 265 LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 266 LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2017–2022 (USD MILLION)

TABLE 267 LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2023–2028 (USD MILLION)

TABLE 268 LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 269 LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 270 LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 271 LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

TABLE 272 LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY COUNTRY, 2017–2022 (USD MILLION)

TABLE 273 LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

11.6.4 BRAZIL

TABLE 274 BRAZIL: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING,



2017-2022 (USD MILLION)

TABLE 275 BRAZIL: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING,

2023-2028 (USD MILLION)

TABLE 276 BRAZIL: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE,

2017–2022 (USD MILLION)

TABLE 277 BRAZIL: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE,

2023-2028 (USD MILLION)

TABLE 278 BRAZIL: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT

MODE, 2017-2022 (USD MILLION)

TABLE 279 BRAZIL: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT

MODE, 2023-2028 (USD MILLION)

TABLE 280 BRAZIL: PUBLIC KEY INFRASTRUCTURE MARKET, BY

ORGANIZATION SIZE, 2017–2022 (USD MILLION)

TABLE 281 BRAZIL: PUBLIC KEY INFRASTRUCTURE MARKET, BY

ORGANIZATION SIZE, 2023–2028 (USD MILLION)

TABLE 282 BRAZIL: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL,

2017-2022 (USD MILLION)

TABLE 283 BRAZIL: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL,

2023–2028 (USD MILLION)

11.6.5 MEXICO

TABLE 284 MEXICO: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING.

2017-2022 (USD MILLION)

TABLE 285 MEXICO: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING,

2023-2028 (USD MILLION)

TABLE 286 MEXICO: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE,

2017-2022 (USD MILLION)

TABLE 287 MEXICO: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE,

2023-2028 (USD MILLION)

TABLE 288 MEXICO: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT

MODE, 2017–2022 (USD MILLION)

TABLE 289 MEXICO: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT

MODE, 2023-2028 (USD MILLION)

TABLE 290 MEXICO: PUBLIC KEY INFRASTRUCTURE MARKET, BY

ORGANIZATION SIZE, 2017–2022 (USD MILLION)

TABLE 291 MEXICO: PUBLIC KEY INFRASTRUCTURE MARKET, BY

ORGANIZATION SIZE, 2023–2028 (USD MILLION)

TABLE 292 MEXICO: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL,

2017–2022 (USD MILLION)

TABLE 293 MEXICO: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL,



2023-2028 (USD MILLION)

11.6.6 REST OF LATIN AMERICA

TABLE 294 REST OF LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 295 REST OF LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 296 REST OF LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2017–2022 (USD MILLION)

TABLE 297 REST OF LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 298 REST OF LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 299 REST OF LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 300 REST OF LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2017–2022 (USD MILLION)

TABLE 301 REST OF LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY ORGANIZATION SIZE, 2023–2028 (USD MILLION)

TABLE 302 REST OF LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 303 REST OF LATIN AMERICA: PUBLIC KEY INFRASTRUCTURE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

12 COMPETITIVE LANDSCAPE

12.1 OVERVIEW

12.2 COMPANY EVALUATION MATRIX

12.2.1 DEFINITIONS AND METHODOLOGY

TABLE 304 EVALUATION CRITERIA

12.2.2 STARS

12.2.3 EMERGING LEADERS

12.2.4 PERVASIVE PLAYERS

12.2.5 PARTICIPANTS

FIGURE 35 PUBLIC KEY INFRASTRUCTURE MARKET (GLOBAL): COMPANY EVALUATION MATRIX, 2023

12.2.6 PRODUCT FOOTPRINT

FIGURE 36 PRODUCT FOOTPRINT OF KEY COMPANIES

TABLE 305 KEY COMPANY FOOTPRINT, BY OFFERING

TABLE 306 KEY COMPANY FOOTPRINT, BY DEPLOYMENT MODE



TABLE 307 KEY COMPANY FOOTPRINT, BY VERTICAL

TABLE 308 KEY COMPANY FOOTPRINT, BY REGION

12.3 STARTUP EVALUATION MATRIX

12.3.1 DEFINITIONS AND METHODOLOGY

12.3.2 PROGRESSIVE COMPANIES

12.3.3 RESPONSIVE COMPANIES

12.3.4 DYNAMIC COMPANIES

12.3.5 STARTING BLOCKS

FIGURE 37 PUBLIC KEY INFRASTRUCTURE MARKET (GLOBAL): STARTUP

EVALUATION MATRIX, 2023

12.3.6 COMPETITIVE BENCHMARKING

FIGURE 38 PRODUCT FOOTPRINT OF STARTUPS

TABLE 309 STARTUP FOOTPRINT, BY OFFERING

TABLE 310 STARTUP FOOTPRINT, BY DEPLOYMENT MODE

TABLE 311 STARTUP FOOTPRINT, BY VERTICAL

TABLE 312 STARTUP FOOTPRINT, BY REGION

12.4 REVENUE ANALYSIS

FIGURE 39 REVENUE ANALYSIS OF KEY PUBLIC KEY INFRASTRUCTURE VENDORS

12.5 MARKET SHARE ANALYSIS

FIGURE 40 PUBLIC KEY INFRASTRUCTURE MARKET (GLOBAL): MARKET SHARE, 2023

TABLE 313 DEGREE OF COMPETITION

12.6 STRATEGIES ADOPTED BY KEY PLAYERS/RIGHT TO WIN

TABLE 314 OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS IN PKI MARKET

12.7 KEY MARKET DEVELOPMENTS

12.7.1 PRODUCT LAUNCHES

TABLE 315 PUBLIC KEY INFRASTRUCTURE MARKET: PRODUCT LAUNCHES, MARCH 2019–SEPTEMBER 2023

12.7.2 DEALS

TABLE 316 PUBLIC KEY INFRASTRUCTURE MARKET: DEALS, JANUARY

2020-AUGUST 2023

12.8 MARKET RANKING

FIGURE 41 MARKET RANKING IN 2022

13 COMPANY PROFILES

(Business overview, Solutions and services offered, Recent Developments, MNM view,



Key strengths, Strategic choices, Weaknesses and competitive threats) *

13.1 INTRODUCTION

13.2 KEY PLAYERS

13.2.1 THALES

TABLE 317 THALES: BUSINESS OVERVIEW FIGURE 42 THALES: COMPANY SNAPSHOT TABLE 318 THALES: SOLUTIONS OFFERED

TABLE 319 THALES: SERVICES OFFERED TABLE 320 THALES: PRODUCT LAUNCHES

TABLE 321 THALES: DEALS 13.2.2 ENTRUST DATACARD

TABLE 322 ENTRUST DATACARD: BUSINESS OVERVIEW TABLE 323 ENTRUST DATACARD: SOLUTIONS OFFERED

TABLE 324 ENTRUST DATACARD: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 325 ENTRUST DATACARD: DEALS

13.2.3 DIGICERT

TABLE 326 DIGICERT: BUSINESS OVERVIEW TABLE 327 DIGICERT: SOLUTIONS OFFERED TABLE 328 DIGICERT: SERVICES OFFERED

TABLE 329 DIGICERT: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 330 DIGICERT: DEALS

13.2.4 MANAGEENGINE

TABLE 331 MANAGEENGINE: BUSINESS OVERVIEW TABLE 332 MANAGEENGINE: SOLUTIONS OFFERED

TABLE 333 MANAGEENGINE: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 334 MANAGEENGINE: DEALS

13.2.5 MICROSOFT

TABLE 335 MICROSOFT: BUSINESS OVERVIEW FIGURE 43 MICROSOFT: COMPANY SNAPSHOT TABLE 336 MICROSOFT: SOLUTIONS OFFERED TABLE 337 MICROSOFT: PRODUCT LAUNCHES

TABLE 338 MICROSOFT: DEALS

13.2.6 HID GLOBAL

TABLE 339 HID GLOBAL: BUSINESS OVERVIEW TABLE 340 HID GLOBAL: SOLUTIONS OFFERED TABLE 341 HID GLOBAL: SERVICES OFFERED TABLE 342 HID GLOBAL: PRODUCT LAUNCHES

TABLE 343 HID GLOBAL: DEALS

13.2.7 GOOGLE



TABLE 344 GOOGLE: BUSINESS OVERVIEW FIGURE 44 GOOGLE: COMPANY SNAPSHOT TABLE 345 GOOGLE: SOLUTIONS OFFERED TABLE 346 GOOGLE: PRODUCT LAUNCHES

TABLE 347 GOOGLE: DEALS

13.2.8 AMAZON WEB SERVICES

TABLE 348 AMAZON WEB SERVICES: BUSINESS OVERVIEW FIGURE 45 AMAZON WEB SERVICES: COMPANY SNAPSHOT TABLE 349 AMAZON WEB SERVICES: SOLUTIONS OFFERED

13.3 OTHER PLAYERS

13.3.1 APPVIEWX

TABLE 350 APPVIEWX: BUSINESS OVERVIEW TABLE 351 APPVIEWX: SOLUTIONS OFFERED

TABLE 352 APPVIEWX: DEALS TABLE 353 APPVIEWX: OTHERS

13.3.2 VENAFI

TABLE 354 VENAFI: BUSINESS OVERVIEW TABLE 355 VENAFI: SOLUTIONS OFFERED TABLE 356 VENAFI: SERVICES OFFERED TABLE 357 VENAFI: PRODUCT LAUNCHES

TABLE 358 VENAFI: DEALS

13.3.3 NEXUS

TABLE 359 NEXUS: BUSINESS OVERVIEW TABLE 360 NEXUS: SOLUTIONS OFFERED

TABLE 361 NEXUS: DEALS

13.3.4 SECTIGO

13.3.5 FUTUREX

13.3.6 GLOBALSIGN

13.3.7 WISEKEY

13.3.8 CYGNACOM SOLUTIONS

13.3.9 KEYFACTOR

13.3.10 SSL.COM

13.3.11 STORMSHIELD

13.3.12 LAWTRUST

13.3.13 SOFTLOCK

13.3.14 SECARDEO GMBH

13.3.15 BLUE RIDGE NETWORKS

13.3.16 SECUREMETRIC

13.3.17 ENIGMA INFORMATION SECURITY SYSTEMS



*Details on Business overview, Solutions and services offered, Recent Developments, MNM view, Key strengths, Strategic choices, Weaknesses and competitive threats might not be captured in case of unlisted companies.

14 ADJACENT MARKETS

14.1 INTRODUCTION TO ADJACENT MARKETS

TABLE 362 ADJACENT MARKETS AND FORECASTS

14.1.1 LIMITATIONS

14.2 DIGITAL SIGNATURE MARKET

TABLE 363 DIGITAL SIGNATURE MARKET, BY COMPONENT, 2016–2021 (USD MILLION)

TABLE 364 DIGITAL SIGNATURE MARKET, BY COMPONENT, 2022–2027 (USD MILLION)

TABLE 365 DIGITAL SIGNATURE MARKET, BY VERTICAL, 2016–2021 (USD MILLION)

TABLE 366 DIGITAL SIGNATURE MARKET, BY VERTICAL, 2022–2027 (USD MILLION)

14.3 CERTIFICATE AUTHORITY MARKET

TABLE 367 CERTIFICATE AUTHORITY MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 368 CERTIFICATE AUTHORITY MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 369 CERTIFICATE AUTHORITY MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 370 CERTIFICATE AUTHORITY MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

15 APPENDIX

- 15.1 DISCUSSION GUIDE
- 15.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL
- 15.3 CUSTOMIZATION OPTIONS
- 15.4 RELATED REPORTS
- 15.5 AUTHOR DETAILS



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