

Multi-Factor Authentication Market Report by Model (Two-Factor Authentication, Three-Factor Authentication, Four-Factor Authentication, Five-Factor Authentication), Deployment Type (On-Premises, On-Cloud), Application (Smart Card Authentication, Phone-Based Authentication, Hardware OTP Token Authentication), Vertical (Banking and Finance, Government, Travel and Immigration, Military and Defence, IT and Telecom, Healthcare, Retail and Ecommerce, and Others), and Region 2024-2032

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# **Abstracts**

The global multi-factor authentication market size reached US\$ 18.1 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 65.9 Billion by 2032, exhibiting a growth rate (CAGR) of 15% during 2024-2032. The growing focus on data privacy and security regulations, rising demand for advanced cybersecurity to reduce fraud, and increasing awareness about the importance of securing remote access are some of the major factors propelling the market.

Multi-factor authentication (MFA) is an advanced security protocol that is designed to enhance the protection of digital accounts and systems. It works by requiring users to provide multiple forms of identification, such as a password, fingerprints, or facial recognition, before gaining access. It assists in strengthening security by making it more challenging for unauthorized individuals to breach accounts or systems. As it aids in reducing fraud and threats, the demand for MFA is increasing across the globe.



At present, the rising need to safeguard sensitive information and reduce the risk of unauthorized access is supporting the growth of the market. Besides this, the increasing adoption of cloud-based applications and services that require enhanced security measures is strengthening the growth of the market. Additionally, the growing demand for MFA to maintain customer trust by preventing data leakage is positively influencing the market. Apart from this, innovations in biometrics, mobile authentication, and hardware tokens assist in providing more user-friendly and effective solutions to individuals around the world, which is offering lucrative growth opportunities to industry investors. Furthermore, the rising integration of MFA with identity and access management (IAM) solutions to streamline the management of user identities and access permissions is bolstering the growth of the market.

Multi-Factor Authentication Market Trends/Drivers: Rising demand for advanced cybersecurity

The rising demand for advanced cybersecurity to reduce the number of threats and crimes is bolstering the growth of the market. In addition, the emergence of these cyber threats poses a significant risk to organizations across all sectors. Cybercriminals are increasingly utilizing techniques to steal sensitive information from individuals. Besides this, MFA is a critical solution to combat these threats as it offers an additional layer of defense against unauthorized access. Various companies are rapidly investing in advanced cybersecurity solutions to safeguard their data, protect their customers, maintain their reputation, and prevent huge financial losses, which is contributing to the growth of the market.

Increasing focus on data privacy and security regulations

The increasing focus on data privacy among various business organizations across the globe is propelling the growth of the market. In line with this, governing agencies and various private organizations of several countries are implementing stringent measures to protect sensitive information. In addition, compliance with these regulations is not optional but it is legally required. Apart from this, MFA is a fundamental component of compliance efforts, as it significantly enhances data security. Organizations are implementing MFA to mitigate the risk of data breaches and ensure the privacy of personal and sensitive data as it can result in severe financial penalties and lower the reputation of an organization.

Growing awareness about the importance of securing remote access



The rising awareness about the importance of securing remote access is impelling the growth of the market. In addition, there is an increase in the popularity of remote working in various organizations across the globe. Besides this, MFA is an essential tool that ensures only authorized individuals can access critical systems and data. Moreover, there is a rise in chances of expanded cybercriminals as employees access corporate networks and sensitive data from various locations. The increasing demand for MFA solutions as organizations adapt to remote work arrangements is contributing to the growth of the market. Employers recognize that securing remote access is essential in maintaining the operational continuity of a business.

Multi-Factor Authentication Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global multi-factor authentication market report, along with forecasts at the global, regional and country levels from 2024-2032. Our report has categorized the market based on model, deployment type, application and vertical.

Breakup by Model:

Two-Factor Authentication
Three-Factor Authentication
Four-Factor Authentication
Five-Factor Authentication

Two-factor authentication represents the largest market segment

The report has provided a detailed breakup and analysis of the market based on the model. This includes two-factor authentication, three-factor authentication, four-factor authentication, and five-factor authentication. According to the report, two-factor authentication represented the largest segment. Two-factor authentication (2FA) is a security process that requires users to provide two separate authentication factors to access a system, account, or application. The two factors typically fall into three categories, such as a password, a smartphone or hardware token, and biometric data like fingerprints. By combining any two of these factors, 2FA significantly enhances security as compared to relying solely on a password. This approach mitigates the vulnerabilities associated with password-based authentication, such as weak passwords or password reuse.

Breakup by Deployment Type:



On-Premises
On-Cloud

On-premises accounts for the majority of the market share

The report has provided a detailed breakup and analysis of the market based on the deployment type. This includes on-premises and on-cloud. According to the report, on-premises represented the largest segment. On-premises deployment refers to the installation and management of authentication systems within the physical infrastructure of an organization rather than relying on cloud-based or off-site solutions. It provides organizations with complete control over their authentication systems and allows them to tailor security measures to their specific needs and compliance requirements. This level of control is especially crucial for industries with stringent data security regulations, such as finance and healthcare. Furthermore, on-premises deployment often offers enhanced security as sensitive authentication data remains within the own secure network of organization, which reduces exposure to external threats.

Breakup by Application:

Smart Card Authentication
Phone-Based Authentication
Hardware OTP Token Authentication

Phone-based authentication holds the biggest market share

The report has provided a detailed breakup and analysis of the market based on the application. This includes smart card authentication, phone-based authentication, and hardware OTP token authentication. According to the report, phone-based authentication represented the largest segment. Phone-based authentication offers a convenient and secure means of verifying user identities. It leverages mobile devices, such as smartphones, as a key component in the authentication process. It typically involves the generation of one-time passwords (OTP) or the use of mobile apps to validate the identity of users. OTPs are sent via short message service (SMS), voice calls, or generated by mobile apps. This authentication method is highly versatile and widely adopted across industries. It is commonly used to secure online accounts, mobile banking, and two-factor authentication (2FA) for various applications.

Breakup by Vertical:



Banking & Finance
Government
Travel & Immigration
Military & Defence
IT and Telecom
Healthcare
Retail and Ecommerce
Others

Banking and finance dominate the market segment

The report has provided a detailed breakup and analysis of the market based on the vertical. This includes banking and finance, government, travel and immigration, military and defence, IT and telecom, healthcare, retail and ecommerce, and others. According to the report, banking and finance represented the largest segment. The banking and finance sector is one of the most security-conscious industries due to its responsibility for managing and protecting vast amounts of monetary assets and personal information. Authentication methods like MFA and biometrics are extensively deployed to secure online banking, mobile banking apps, and transactions. MFA adds an extra layer of protection that assists in preventing losses. Moreover, biometric authentication, such as fingerprint recognition and facial recognition, is increasingly used in this sector due to its high level of security and convenience. It ensures that only authorized individuals can access accounts and conduct financial transactions.

# Breakup by Region

North America

**United States** 

Canada

Europe

Germany

France

**United Kingdom** 

Italy

Spain

Russia

Others

Asia Pacific



China

Japan

India

South Korea

Australia

Indonesia

Others

Latin America

Brazil

Mexico

Argentina

Colombia

Chile

Peru

Others

Middle East and Africa

Turkey

Saudi Arabia

Iran

**United Arab Emirates** 

Others

North America exhibits a clear dominance, accounting for the largest multi-factor authentication market share

The market research report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Latin America (Brazil, Mexico, Argentina, Colombia, Chile, Peru, and others); and the Middle East and Africa (Turkey, Saudi Arabia, Iran, United Arab Emirates, and Others). According to the report, North America accounted for the largest market share.

North America held the biggest market share due to the increasing adoption of advanced authentication methods. In addition, the rising focus on security to protect the vast amounts of financial data is strengthening the growth of the market in the region. Apart from this, the growing demand for MFA due to stringent data protection regulations is positively influencing the market. In line with this, the increasing number of data breaches is supporting the growth of the market in the North America region.



# Competitive Landscape:

Key players are continuously developing and refining authentication methods, such as mobile-based authentication, behavioral analytics, and biometrics, including facial recognition and fingerprint scanning, to offer more secure and user-friendly options. In addition, they are working on ensuring their MFA solutions seamlessly integrate with a wide range of applications, systems, and devices. This enhances the overall user experience and makes it easier for organizations to implement MFA across their IT environments. Apart from this, many MFA providers are offering cloud-based solutions that provide scalability and flexibility for businesses. Furthermore, companies are investing in enhancing the security features of their MFA solutions to stay ahead of evolving threats. Additionally, they are ensuring compliance with data protection regulations.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

CA Technologies

Crossmatch

Deepnet Security Ltd.

**Entrust Datacard Corporation** 

Fujitsu

Gemalto NV

Microsoft Corporation

**NEC Corporation of America** 

Okta

Ping Identity

**RSA Security** 

SecureAuth

SecurEnvoy Limited (Shearwater Group plc Company)

Suprema Inc.

Symantec Corporation

Recent Developments:

In 2021, Microsoft Corp. announced new products, employee plans, and guidance to tackle the global fight against increasingly large-scale and complex cyberattacks. These include additional support for multifactor authentication (MFA) and security protection for customers.

In 2020, Ping Identity, announced the availability of its PingID multi-factor authentication



(MFA) in AWS marketplace. These cloud-ready solutions enable enterprises to secure remote work and boost employee productivity.

In 2021, SecureAuth, a provider of identity and access management solutions acquired Acceptto, an emerging leader in passwordless authentication. The acquisition of Acceptto accelerates SecureAuth's vision of Al-driven continuous authentication and allows SecureAuth to be the preferred choice for user-friendly passwordless login.

# Key Questions Answered in This Report

- 1. What was the size of the global multi-factor authentication market in 2023?
- 2. What is the expected growth rate of the global multi-factor authentication market during 2024-2032?
- 3. What are the key factors driving the global multi-factor authentication market?
- 4. What has been the impact of COVID-19 on the global multi-factor authentication market?
- 5. What is the breakup of the global multi-factor authentication market based on the model?
- 6. What is the breakup of the global multi-factor authentication market based on the deployment type?
- 7. What is the breakup of the global multi-factor authentication market based on the application?
- 8. What is the breakup of the global multi-factor authentication market based on the vertical?
- 9. What are the key regions in the global multi-factor authentication market?
- 10. Who are the key players/companies in the global multi-factor authentication market?



# **Contents**

#### 1 PREFACE

# **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

# **3 EXECUTIVE SUMMARY**

## **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

# **5 GLOBAL MULTI-FACTOR AUTHENTICATION MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

# **6 MARKET BREAKUP BY MODEL**

- 6.1 Two-Factor Authentication
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 Three-Factor Authentication
  - 6.2.1 Market Trends



- 6.2.2 Market Forecast
- 6.3 Four-Factor Authentication
  - 6.3.1 Market Trends
  - 6.3.2 Market Forecast
- 6.4 Five-Factor Authentication
  - 6.4.1 Market Trends
  - 6.4.2 Market Forecast

#### 7 MARKET BREAKUP BY DEPLOYMENT TYPE

- 7.1 On-Premises
  - 7.1.1 Market Trends
  - 7.1.2 Market Forecast
- 7.2 On-Cloud
  - 7.2.1 Market Trends
  - 7.2.2 Market Forecast

# **8 MARKET BREAKUP BY APPLICATION**

- 8.1 Smart Card Authentication
  - 8.1.1 Market Trends
  - 8.1.2 Market Forecast
- 8.2 Phone-Based Authentication
  - 8.2.1 Market Trends
  - 8.2.2 Market Forecast
- 8.3 Hardware OTP Token Authentication
  - 8.3.1 Market Trends
  - 8.3.2 Market Forecast

#### 9 MARKET BREAKUP BY VERTICAL

- 9.1 Banking & Finance
  - 9.1.1 Market Trends
  - 9.1.2 Market Forecast
- 9.2 Government
  - 9.2.1 Market Trends
  - 9.2.2 Market Forecast
- 9.3 Travel & Immigration
  - 9.3.1 Market Trends



- 9.3.2 Market Forecast
- 9.4 Military & Defence
  - 9.4.1 Market Trends
  - 9.4.2 Market Forecast
- 9.5 IT and Telecom
  - 9.5.1 Market Trends
  - 9.5.2 Market Forecast
- 9.6 Healthcare
  - 9.6.1 Market Trends
  - 9.6.2 Market Forecast
- 9.7 Retail and Ecommerce
  - 9.7.1 Market Trends
  - 9.7.2 Market Forecast
- 9.8 Others
  - 9.8.1 Market Trends
  - 9.8.2 Market Forecast

# 10 MARKET BREAKUP BY REGION

- 10.1 North America
  - 10.1.1 United States
    - 10.1.1.1 Market Trends
    - 10.1.1.2 Market Forecast
  - 10.1.2 Canada
    - 10.1.2.1 Market Trends
    - 10.1.2.2 Market Forecast
- 10.2 Europe
  - 10.2.1 Germany
    - 10.2.1.1 Market Trends
    - 10.2.1.2 Market Forecast
  - 10.2.2 France
    - 10.2.2.1 Market Trends
    - 10.2.2.2 Market Forecast
  - 10.2.3 United Kingdom
    - 10.2.3.1 Market Trends
    - 10.2.3.2 Market Forecast
  - 10.2.4 Italy
    - 10.2.4.1 Market Trends
  - 10.2.4.2 Market Forecast



- 10.2.5 Spain
  - 10.2.5.1 Market Trends
  - 10.2.5.2 Market Forecast
- 10.2.6 Russia
  - 10.2.6.1 Market Trends
- 10.2.6.2 Market Forecast
- 10.2.7 Others
  - 10.2.7.1 Market Trends
  - 10.2.7.2 Market Forecast
- 10.3 Asia Pacific
  - 10.3.1 China
    - 10.3.1.1 Market Trends
    - 10.3.1.2 Market Forecast
  - 10.3.2 Japan
    - 10.3.2.1 Market Trends
    - 10.3.2.2 Market Forecast
  - 10.3.3 India
    - 10.3.3.1 Market Trends
    - 10.3.3.2 Market Forecast
  - 10.3.4 South Korea
    - 10.3.4.1 Market Trends
    - 10.3.4.2 Market Forecast
  - 10.3.5 Australia
    - 10.3.5.1 Market Trends
    - 10.3.5.2 Market Forecast
  - 10.3.6 Indonesia
    - 10.3.6.1 Market Trends
    - 10.3.6.2 Market Forecast
  - 10.3.7 Others
    - 10.3.7.1 Market Trends
    - 10.3.7.2 Market Forecast
- 10.4 Latin America
  - 10.4.1 Brazil
    - 10.4.1.1 Market Trends
    - 10.4.1.2 Market Forecast
  - 10.4.2 Mexico
    - 10.4.2.1 Market Trends
    - 10.4.2.2 Market Forecast
  - 10.4.3 Argentina



- 10.4.3.1 Market Trends
- 10.4.3.2 Market Forecast
- 10.4.4 Colombia
  - 10.4.4.1 Market Trends
  - 10.4.4.2 Market Forecast
- 10.4.5 Chile
  - 10.4.5.1 Market Trends
  - 10.4.5.2 Market Forecast
- 10.4.6 Peru
  - 10.4.6.1 Market Trends
  - 10.4.6.2 Market Forecast
- 10.4.7 Others
  - 10.4.7.1 Market Trends
- 10.4.7.2 Market Forecast
- 10.5 Middle East and Africa
  - 10.5.1 Turkey
    - 10.5.1.1 Market Trends
    - 10.5.1.2 Market Forecast
  - 10.5.2 Saudi Arabia
    - 10.5.2.1 Market Trends
    - 10.5.2.2 Market Forecast
  - 10.5.3 Iran
    - 10.5.3.1 Market Trends
    - 10.5.3.2 Market Forecast
  - 10.5.4 United Arab Emirates
    - 10.5.4.1 Market Trends
    - 10.5.4.2 Market Forecast
  - 10.5.5 Others
    - 10.5.5.1 Market Trends
    - 10.5.5.2 Market Forecast

#### 11 SWOT ANALYSIS

- 11.1 Overview
- 11.2 Strengths
- 11.3 Weaknesses
- 11.4 Opportunities
- 11.5 Threats



### 12 VALUE CHAIN ANALYSIS

# 13 PORTERS FIVE FORCES ANALYSIS

- 13.1 Overview
- 13.2 Bargaining Power of Buyers
- 13.3 Bargaining Power of Suppliers
- 13.4 Degree of Competition
- 13.5 Threat of New Entrants
- 13.6 Threat of Substitutes

#### 14 COMPETITIVE LANDSCAPE

- 14.1 Market Structure
- 14.2 Key Players
- 14.3 Profiles of Key Players
  - 14.3.1 CA Technologies
    - 14.3.1.1 Company Overview
    - 14.3.1.2 Product Portfolio
  - 14.3.2 Crossmatch
    - 14.3.2.1 Company Overview
    - 14.3.2.2 Product Portfolio
    - 14.3.2.3 Financials
    - 14.3.2.4 SWOT Analysis
  - 14.3.3 Deepnet Security Ltd.
  - 14.3.3.1 Company Overview
  - 14.3.3.2 Product Portfolio
  - 14.3.4 Entrust Datacard Corporation
    - 14.3.4.1 Company Overview
    - 14.3.4.2 Product Portfolio
  - 14.3.5 Fujitsu
    - 14.3.5.1 Company Overview
    - 14.3.5.2 Product Portfolio
    - 14.3.5.3 Financials
  - 14.3.5.4 SWOT Analysis
  - 14.3.6 Gemalto NV
    - 14.3.6.1 Company Overview
  - 14.3.6.2 Product Portfolio



- 14.3.7 Microsoft Corporation
  - 14.3.7.1 Company Overview
  - 14.3.7.2 Product Portfolio
  - 14.3.7.3 Financials
  - 14.3.7.4 SWOT Analysis
- 14.3.8 NEC Corporation of America
  - 14.3.8.1 Company Overview
  - 14.3.8.2 Product Portfolio
  - 14.3.8.3 Financials
  - 14.3.8.4 SWOT Analysis
- 14.3.9 Okta
  - 14.3.9.1 Company Overview
  - 14.3.9.2 Product Portfolio
  - 14.3.9.3 Financials
- 14.3.10 Ping Identity
  - 14.3.10.1 Company Overview
  - 14.3.10.2 Product Portfolio
- 14.3.11 RSA Security
  - 14.3.11.1 Company Overview
- 14.3.11.2 Product Portfolio
- 14.3.12 SecureAuth
  - 14.3.12.1 Company Overview
  - 14.3.12.2 Product Portfolio
- 14.3.13 SecurEnvoy Limited (Shearwater Group plc Company)
  - 14.3.13.1 Company Overview
  - 14.3.13.2 Product Portfolio
- 14.3.14 Suprema Inc.
  - 14.3.14.1 Company Overview
  - 14.3.14.2 Product Portfolio
  - 14.3.14.3 Financials
- 14.3.15 Symantec Corporation
  - 14.3.15.1 Company Overview
  - 14.3.15.2 Product Portfolio
  - 14.3.15.3 Financials



# **List Of Tables**

#### LIST OF TABLES

Table 1: Global: Multi-Factor Authentication Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Multi-Factor Authentication Market Forecast: Breakup by Model (in Million US\$), 2024-2032

Table 3: Global: Multi-Factor Authentication Market Forecast: Breakup by Deployment Type (in Million US\$), 2024-2032

Table 4: Global: Multi-Factor Authentication Market Forecast: Breakup by Application (in Million US\$), 2024-2032

Table 5: Global: Multi-Factor Authentication Market Forecast: Breakup by Vertical (in Million US\$), 2024-2032

Table 6: Global: Multi-Factor Authentication Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 7: Global: Multi-Factor Authentication Market: Competitive Structure

Table 8: Global: Multi-Factor Authentication Market: Key Players



# **List Of Figures**

#### **LIST OF FIGURES**

Figure 1: Global: Multi-Factor Authentication Market: Major Drivers and Challenges Figure 2: Global: Multi-Factor Authentication Market: Sales Value (in Billion US\$),

2018-2023

Figure 3: Global: Multi-Factor Authentication Market: Breakup by Model (in %), 2023

Figure 4: Global: Multi-Factor Authentication Market: Breakup by Deployment Type (in %), 2023

Figure 5: Global: Multi-Factor Authentication Market: Breakup by Application (in %), 2023

Figure 6: Global: Multi-Factor Authentication Market: Breakup by Vertical (in %), 2023

Figure 7: Global: Multi-Factor Authentication Market: Breakup by Region (in %), 2023

Figure 8: Global: Multi-Factor Authentication Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 9: Global: Multi-Factor Authentication (Two-Factor Authentication) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 10: Global: Multi-Factor Authentication (Two-Factor Authentication) Market

Forecast: Sales Value (in Million US\$), 2024-2032

Figure 11: Global: Multi-Factor Authentication (Three-Factor Authentication) Market:

Sales Value (in Million US\$), 2018 & 2023

Figure 12: Global: Multi-Factor Authentication (Three-Factor Authentication) Market

Forecast: Sales Value (in Million US\$), 2024-2032

Figure 13: Global: Multi-Factor Authentication (Four-Factor Authentication) Market:

Sales Value (in Million US\$), 2018 & 2023

Figure 14: Global: Multi-Factor Authentication (Four-Factor Authentication) Market

Forecast: Sales Value (in Million US\$), 2024-2032

Figure 15: Global: Multi-Factor Authentication (Five-Factor Authentication) Market:

Sales Value (in Million US\$), 2018 & 2023

Figure 16: Global: Multi-Factor Authentication (Five-Factor Authentication) Market

Forecast: Sales Value (in Million US\$), 2024-2032

Figure 17: Global: Multi-Factor Authentication (On-Premises) Market: Sales Value (in

Million US\$), 2018 & 2023

Figure 18: Global: Multi-Factor Authentication (On-Premises) Market Forecast: Sales

Value (in Million US\$), 2024-2032

Figure 19: Global: Multi-Factor Authentication (On-Cloud) Market: Sales Value (in

Million US\$), 2018 & 2023

Figure 20: Global: Multi-Factor Authentication (On-Cloud) Market Forecast: Sales Value



(in Million US\$), 2024-2032

Figure 21: Global: Multi-Factor Authentication (Smart Card Authentication) Market:

Sales Value (in Million US\$), 2018 & 2023

Figure 22: Global: Multi-Factor Authentication (Smart Card Authentication) Market

Forecast: Sales Value (in Million US\$), 2024-2032

Figure 23: Global: Multi-Factor Authentication (Phone-Based Authentication) Market:

Sales Value (in Million US\$), 2018 & 2023

Figure 24: Global: Multi-Factor Authentication (Phone-Based Authentication) Market

Forecast: Sales Value (in Million US\$), 2024-2032

Figure 25: Global: Multi-Factor Authentication (Hardware OTP Token Authentication)

Market: Sales Value (in Million US\$), 2018 & 2023

Figure 26: Global: Multi-Factor Authentication (Hardware OTP Token Authentication)

Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 27: Global: Multi-Factor Authentication (Banking & Finance) Market: Sales Value

(in Million US\$), 2018 & 2023

Figure 28: Global: Multi-Factor Authentication (Banking & Finance) Market Forecast:

Sales Value (in Million US\$), 2024-2032

Figure 29: Global: Multi-Factor Authentication (Government) Market: Sales Value (in

Million US\$), 2018 & 2023

Figure 30: Global: Multi-Factor Authentication (Government) Market Forecast: Sales

Value (in Million US\$), 2024-2032

Figure 31: Global: Multi-Factor Authentication (Travel & Immigration) Market: Sales

Value (in Million US\$), 2018 & 2023

Figure 32: Global: Multi-Factor Authentication (Travel & Immigration) Market Forecast:

Sales Value (in Million US\$), 2024-2032

Figure 33: Global: Multi-Factor Authentication (Military & Defence) Market: Sales Value

(in Million US\$), 2018 & 2023

Figure 34: Global: Multi-Factor Authentication (Military & Defence) Market Forecast:

Sales Value (in Million US\$), 2024-2032

Figure 35: Global: Multi-Factor Authentication (IT and Telecom) Market: Sales Value (in

Million US\$), 2018 & 2023

Figure 36: Global: Multi-Factor Authentication (IT and Telecom) Market Forecast: Sales

Value (in Million US\$), 2024-2032

Figure 37: Global: Multi-Factor Authentication (Healthcare) Market: Sales Value (in

Million US\$), 2018 & 2023

Figure 38: Global: Multi-Factor Authentication (Healthcare) Market Forecast: Sales

Value (in Million US\$), 2024-2032

Figure 39: Global: Multi-Factor Authentication (Retail and Ecommerce) Market: Sales

Value (in Million US\$), 2018 & 2023



Figure 40: Global: Multi-Factor Authentication (Retail and Ecommerce) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 41: Global: Multi-Factor Authentication (Other Verticals) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 42: Global: Multi-Factor Authentication (Other Verticals) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 43: North America: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 44: North America: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 45: United States: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 46: United States: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 47: Canada: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 48: Canada: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 49: Europe: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 50: Europe: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 51: Germany: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 52: Germany: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 53: France: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 54: France: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 55: United Kingdom: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 56: United Kingdom: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 57: Italy: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 58: Italy: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 59: Spain: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018



& 2023

Figure 60: Spain: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 61: Russia: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 62: Russia: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 63: Others: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 64: Others: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 65: Asia Pacific: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 66: Asia Pacific: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 67: China: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 68: China: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 69: Japan: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 70: Japan: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 71: India: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 72: India: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 73: South Korea: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 74: South Korea: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 75: Australia: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 76: Australia: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 77: Indonesia: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 78: Indonesia: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032



Figure 79: Others: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 80: Others: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 81: Latin America: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 82: Latin America: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 83: Brazil: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 84: Brazil: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 85: Mexico: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 86: Mexico: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 87: Argentina: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 88: Argentina: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 89: Colombia: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 90: Colombia: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 91: Chile: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 92: Chile: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 93: Peru: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 94: Peru: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 95: Others: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 96: Others: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 97: Middle East and Africa: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 98: Middle East and Africa: Multi-Factor Authentication Market Forecast: Sales



Value (in Million US\$), 2024-2032

Figure 99: Turkey: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 100: Turkey: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 101: Saudi Arabia: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 102: Saudi Arabia: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 103: Iran: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 104: Iran: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 105: United Arab Emirates: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 106: United Arab Emirates: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 107: Others: Multi-Factor Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 108: Others: Multi-Factor Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 109: Global: Multi-Factor Authentication Industry: SWOT Analysis

Figure 110: Global: Multi-Factor Authentication Industry: Value Chain Analysis

Figure 111: Global: Multi-Factor Authentication Industry: Porter's Five Forces Analysis



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