

Biometric Systems Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Authentication Type (Multi-factor Authentication and Single Factor Authentication), By Contact Type (Contact-Based System, Contact Less System, and Hybrid), By Technology (Face Recognition, Iris Recognition, Voice Recognition, Vein Recognition, Fingerprint Recognition, and Others), By Mobility (Fixed and Portable), By End-user (BFSI, Military & Defense, Consumer Electronics, Travel & Transport, Commercial, Smart Home, Government & Public, and Others), By Region, By Company and By Geography, Forecast & Opportunities, 2018-2028

<https://marketpublishers.com/r/B13DDBF785FDEN.html>

Date: November 2023

Pages: 182

Price: US\$ 4,900.00 (Single User License)

ID: B13DDBF785FDEN

Abstracts

The Global Biometric Systems Market was valued at USD 32.4 Billion in 2022 and is expected to grow at a CAGR of 14.8% during the forecast period. The Global Biometric Systems Market is experiencing robust growth propelled by a fusion of heightened security demands and technological advancements. Biometric systems, which encompass unique biological and behavioral attributes for authentication and identification purposes, have become a cornerstone in ensuring secure access and safeguarding sensitive information across industries. The escalating prevalence of cyber threats, data breaches, and identity fraud has spurred the adoption of biometric solutions as a more secure and reliable alternative to traditional methods. Advancements in biometric technologies, including facial recognition, fingerprint

scanning, and iris recognition, have improved accuracy, speed, and user experience, driving widespread acceptance. Moreover, increasing government initiatives for enhanced border security, coupled with the integration of biometrics in mobile devices and financial services, contribute to the market's expansion. As industries prioritize robust security measures and user convenience, the Global Biometric Systems Market is poised for sustained growth in the foreseeable future.

Key Market Drivers

Advancements in Biometric Technology

The growth of the Global Biometric Systems Market is steered by rapid advancements in biometric technology. As traditional authentication methods prove vulnerable to security breaches, the adoption of biometric solutions gains momentum. Innovations in fingerprint recognition, facial and iris scanning, voice recognition, and behavioral biometrics have substantially improved accuracy and security. Biometric systems offer unique and virtually impossible-to-replicate identifiers, enhancing access control, identity verification, and fraud prevention across industries. This technology evolution bolsters the market's expansion as organizations prioritize robust security measures that align with the demands of the digital age.

Heightened Security Needs

The increasing frequency and sophistication of security breaches drive the demand for biometric systems across the Global Biometric Systems Market. Organizations face relentless challenges in safeguarding confidential information, physical assets, and digital resources. Biometric solutions provide a robust defense against unauthorized access, identity theft, and fraudulent activities. From financial institutions to healthcare providers and government agencies, the need for stringent security measures has become paramount. As regulatory requirements tighten and public awareness of cybersecurity grows, the adoption of biometric systems as a reliable defense mechanism becomes a pivotal driver of market growth.

Rising Adoption of Mobile Biometrics

The proliferation of mobile devices and the integration of biometric authentication mechanisms within them contribute significantly to the expansion of the Global Biometric Systems Market. Mobile biometrics, including fingerprint and facial recognition, provide a seamless and secure means of unlocking devices and accessing

sensitive applications. This trend is driven by the consumer demand for convenient yet robust security features. Businesses, too, are leveraging mobile biometrics to enhance user experience while ensuring data protection. As mobile devices become central to modern lifestyles, the integration of biometric authentication further cements its status as a key driver of the market's growth.

Government Initiatives and Regulations

Government initiatives and regulations promoting enhanced security measures and biometric identification methods bolster the growth of the Global Biometric Systems Market. National identity programs, border control efforts, and the implementation of biometric passports drive the adoption of biometric systems on a large scale.

Regulations such as the European Union's General Data Protection Regulation (GDPR) emphasize the importance of securing personal data, driving organizations to implement robust biometric authentication methods to ensure compliance. These initiatives create a favorable environment for the market's expansion as governments and organizations recognize the benefits of biometrics in strengthening security and protecting individual rights.

Financial Services Sector

The financial services sector's increasing reliance on biometric authentication to combat fraud and enhance customer experience serves as a prominent driver for the Global Biometric Systems Market. Biometric solutions enable secure access to accounts, facilitate seamless transactions, and reduce the risk of identity theft in banking and payment systems. As consumers demand frictionless yet secure interactions with their financial institutions, biometric systems offer a compelling solution that aligns with these expectations, fostering the growth of the market in the financial sector and beyond.

Key Market Challenges

Technological Integration and Compatibility

The Global Biometric Systems Market faces a significant challenge in effectively integrating diverse biometric technologies and ensuring seamless compatibility across various platforms and applications. With a wide array of biometric modalities such as fingerprint, facial recognition, voice recognition, and iris scanning, achieving harmonious interoperability becomes complex. The challenge intensifies as biometric systems need to interact flawlessly with different devices and systems, spanning industries from

healthcare to finance. Standardizing communication protocols and integration methods becomes imperative to provide a unified and user-friendly experience. This challenge necessitates industry collaboration to establish universal practices, allowing biometric systems to offer integrated solutions that cater to diverse technological environments. As biometric technologies evolve, addressing this challenge is crucial to harnessing their full potential and delivering seamless and interoperable authentication solutions.

Accuracy and Performance Consistency

Maintaining consistent accuracy and performance across various scenarios poses a significant challenge in the Global Biometric Systems Market. Biometric systems operate in diverse conditions, including different lighting, environmental factors, and user behaviors, which can impact recognition accuracy and speed. Ensuring reliable performance and high accuracy across these variables requires continuous optimization of algorithms, hardware components, and data processing techniques. Manufacturers must strike a balance between precision and speed while addressing the complexities of real-world usage. Achieving dependable and consistent performance contributes to user trust and system adoption, making it essential for biometric systems to excel in various environments and applications.

Security and Privacy Concerns

A critical challenge facing the Global Biometric Systems Market is addressing security and privacy concerns associated with biometric data. Biometric information, such as fingerprints and facial scans, is unique to individuals and raises concerns about potential breaches and misuse. Safeguarding biometric data from unauthorized access, hacking, and identity theft is paramount to maintain user trust. Additionally, compliance with privacy regulations, such as the General Data Protection Regulation (GDPR), adds a layer of complexity to the design and deployment of biometric systems. Striking a balance between user convenience and data protection while adhering to stringent security protocols is a continuous challenge that requires robust encryption, secure storage, and transparent data management practices.

Key Market Trends

Integration of Biometrics in Everyday Life

A pivotal trend shaping the Global Biometric Systems Market is the integration of biometric technologies into everyday life. This trend is fueled by the increasing need for

secure and convenient authentication methods in various contexts. Biometric systems, characterized by their ability to uniquely identify individuals through attributes like fingerprints, facial features, and iris patterns, align seamlessly with the demand for enhanced security and user-friendly interactions. This trend is particularly significant in sectors such as finance, healthcare, and consumer electronics, where biometrics are leveraged for identity verification, access control, and personalized services. As biometric technologies become more refined, accurate, and accessible, they are transforming the way individuals access devices, services, and physical spaces, ultimately reshaping the user experience across industries.

Privacy-Centric Biometric Solutions

The Global Biometric Systems Market is witnessing a prominent trend toward privacy-centric biometric solutions. With growing concerns about data security and privacy, there is a rising emphasis on biometric systems that prioritize user consent, data encryption, and secure storage. This trend is particularly relevant in sectors handling sensitive information, such as healthcare and finance. Biometric technologies that enable users to retain control over their personal data, provide transparency in data usage, and comply with stringent regulations gain traction. Privacy-centric biometric systems not only address public apprehensions but also position themselves as responsible and trustworthy solutions in an era of increasing data breaches and digital vulnerabilities.

Enhanced User Experience through AI

The integration of artificial intelligence (AI) is a transformative trend in the Global Biometric Systems Market. AI-powered algorithms are revolutionizing biometric technologies by enhancing accuracy, speed, and adaptability. Through continuous learning and pattern recognition, AI enables biometric systems to identify individuals even in challenging conditions. This trend is especially prevalent in sectors such as travel, where AI-driven facial recognition expedites airport security procedures, and in smart homes, where AI-powered biometrics provide seamless access control. By offering smoother and more efficient user experiences, AI-driven biometric systems are driving their adoption across a range of applications, improving customer satisfaction and operational efficiency.

Cross-Industry Integration

The Cross-Industry Integration trend is reshaping the Global Biometric Systems Market

by extending the application of biometric technologies beyond traditional sectors. Biometric systems are increasingly integrated into novel domains, including automotive, retail, and entertainment. In the automotive industry, biometrics are utilized for vehicle access and driver monitoring, enhancing security and personalization. In retail, biometric payment systems are redefining the checkout experience, while in entertainment venues, biometrics are employed for access control and ticketing. This trend underscores the versatility of biometric solutions and their capacity to provide value across diverse industries, enabling personalized experiences, streamlined operations, and heightened security.

Segmental Insights

Authentication Type Insights

The Multi-factor Authentication (MFA) segment emerged as the dominant force in the Global Biometric Systems Market, and this dominance is projected to persist throughout the forecast period. Multi-factor Authentication offers an enhanced level of security by requiring users to provide multiple forms of identification for access. This approach aligns perfectly with the growing emphasis on robust security measures across industries to counteract evolving cyber threats and identity fraud. By combining biometric data with additional authentication factors such as passwords, tokens, or smartcards, MFA solutions deliver a multi-layered defense that significantly reduces the risk of unauthorized access. This is particularly crucial in sectors handling sensitive information, such as finance, healthcare, and government. The multifaceted protection offered by MFA resonates with organizations aiming to fortify their security infrastructure, comply with regulations, and maintain customer trust. As the landscape of cybersecurity continues to evolve, the Multi-factor Authentication segment's dominance is poised to endure, driven by the imperative need for advanced security protocols and resilient protection mechanisms against an ever-changing threat landscape.

End User Insights

The BFSI (Banking, Financial Services, and Insurance) sector emerged as the dominant force in the Global Biometric Systems Market, and this dominance is poised to persist throughout the forecast period. The BFSI sector's leadership can be attributed to its stringent security requirements, increasing reliance on digital transactions, and the need to combat financial fraud and identity theft. Biometric systems provide an unparalleled level of security for sensitive financial operations, enhancing customer trust and

regulatory compliance. The robust authentication provided by biometric technologies, such as fingerprint and facial recognition, aligns seamlessly with the sector's imperative to safeguard customer data and prevent unauthorized access. As digital banking, online transactions, and mobile payment solutions continue to flourish, the BFSI sector's demand for reliable and foolproof identity verification methods is expected to drive the continued dominance of biometric systems. Moreover, the advent of open banking and the integration of biometrics into financial applications contribute to the sector's steadfast reliance on biometric solutions. The BFSI segment's commitment to security, coupled with the ongoing evolution of biometric technologies, positions it as a dominant player in the Global Biometric Systems Market, propelling its enduring leadership and influence in the coming year.

Technology Insights

The Face Recognition technology segment established its dominance in the Global Biometric Systems Market, and this dominance is anticipated to persist throughout the forecast period. The ascendancy of Face Recognition can be attributed to its widespread applicability, ease of use, and advancements in deep learning and artificial intelligence. Face Recognition technology offers a non-intrusive and user-friendly authentication method, aligning seamlessly with the increasing demand for frictionless yet secure access across industries. Its versatility is evident in sectors such as consumer electronics, travel, commercial establishments, and government applications, where it has become integral to identity verification, access control, and surveillance. The proliferation of smartphones with built-in facial recognition systems further fuels its adoption. As organizations prioritize user experience and stringent security, Face Recognition technology stands out for its ability to accurately identify individuals in varying conditions, including varying lighting and angles. Additionally, ongoing research and development in facial recognition algorithms contribute to its continuous improvement, enhancing its performance and adaptability. Given its widespread adoption, adaptability to various environments, and continuous technological advancements, Face Recognition technology is poised to maintain its dominance as the primary driver of the Global Biometric Systems Market, playing a pivotal role in reshaping security protocols and user authentication practices across diverse sectors.

Regional Insights

North America emerged as the dominant region in the Global Biometric Systems Market, and this dominance is projected to persist throughout the forecast period. The dominance of North America can be attributed to several factors, including robust

technological infrastructure, widespread adoption of advanced security solutions, and a strong presence of key biometric system vendors. The region's industries, ranging from finance and healthcare to government and technology, have consistently embraced biometric technologies to enhance security, streamline operations, and improve user experiences. Moreover, stringent regulatory frameworks, such as the GDPR in Europe and various data protection laws in North America, have prompted organizations to invest in biometric systems that comply with privacy and security standards. As the region continues to advance in sectors like fintech, healthcare digitization, and IoT, the demand for reliable identity verification and authentication methods remains high. With continuous innovation, research, and development in biometric technologies, North America is poised to maintain its dominance by addressing evolving security challenges, catering to diverse industry demands, and facilitating secure digital transformation across sectors.

Key Market Players

1. Gemalto NV (Thales Group)
2. Leidos Holdings Inc.
3. NEC Corporation
4. M2SYS Technology
5. BioEnable Technologies Pvt. Ltd
6. Phonexia SRO
7. ImageWare Systems Inc.
8. S.I.C. Biometrics Global Inc.
9. Fujitsu Limited
10. Aware Inc.
11. Nuance Communications Inc.
12. IDEMIA France SAS

13. Cognitec Systems GmbH

14. BioID AG

15. Assa Abloy AB

16. Dreamlog Identification System Inc.

17. Daon Inc.

Report Scope:

In this report, the Global Biometric Systems Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Global Biometric Systems Market, By Authentication Type:

Multi-factor Authentication

Single Factor Authentication

Global Biometric Systems Market, By Contact Type:

Contact-Based System

Contact Less System

Hybrid

Global Biometric Systems Market, By Technology:

Face Recognition

Iris Recognition

Voice Recognition

Vein Recognition

Fingerprint Recognition

Others

Global Biometric Systems Market, By Mobility:

Fixed

Portable

Global Biometric Systems Market, By End-user:

BFSI

Military & Defense

Consumer Electronics

Travel & Transport

Commercial

Smart Home

Government & Public

Others

Global Biometric Systems Market, By Region:

North America

Europe

South America

Middle East & Africa

Asia Pacific

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Biometric Systems Market.

Available Customizations:

Global Biometric Systems Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Baseline Methodology
- 2.2. Key Industry Partners
- 2.3. Major Association and Secondary Sources
- 2.4. Forecasting Methodology
- 2.5. Data Triangulation & Validation
- 2.6. Assumptions and Limitations

3. EXECUTIVE SUMMARY

4. IMPACT OF COVID-19 ON GLOBAL BIOMETRIC SYSTEMS MARKET

5. VOICE OF CUSTOMER

6. GLOBAL BIOMETRIC SYSTEMS MARKET OVERVIEW

7. GLOBAL BIOMETRIC SYSTEMS MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Authentication Type (Multi-factor Authentication and Single Factor Authentication)
 - 7.2.2. By Contact Type (Contact-Based System, Contact Less System, and Hybrid)
 - 7.2.3. By Technology (Face Recognition, Iris Recognition, Voice Recognition, Vein Recognition, Fingerprint Recognition, and Others)
 - 7.2.4. By Mobility (Fixed and Portable)
 - 7.2.5. By End-user (BFSI, Military & Defense, Consumer Electronics, Travel &

Transport, Commercial, Smart Home, Government & Public, and Others)

7.2.6. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)

7.3. By Company (2022)

7.4. Market Map

8. NORTH AMERICA BIOMETRIC SYSTEMS MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Authentication Type

8.2.2. By Contact Type

8.2.3. By Technology

8.2.4. By Mobility

8.2.5. By End-user

8.2.6. By Country

8.2.6.1. United States Biometric Systems Market Outlook

8.2.6.1.1. Market Size & Forecast

8.2.6.1.1.1. By Value

8.2.6.1.2. Market Share & Forecast

8.2.6.1.2.1. By Authentication Type

8.2.6.1.2.2. By Contact Type

8.2.6.1.2.3. By Technology

8.2.6.1.2.4. By Mobility

8.2.6.1.2.5. By End-user

8.2.6.2. Canada Biometric Systems Market Outlook

8.2.6.2.1. Market Size & Forecast

8.2.6.2.1.1. By Value

8.2.6.2.2. Market Share & Forecast

8.2.6.2.2.1. By Authentication Type

8.2.6.2.2.2. By Contact Type

8.2.6.2.2.3. By Technology

8.2.6.2.2.4. By Mobility

8.2.6.2.2.5. By End-user

8.2.6.3. Mexico Biometric Systems Market Outlook

8.2.6.3.1. Market Size & Forecast

8.2.6.3.1.1. By Value

8.2.6.3.2. Market Share & Forecast

- 8.2.6.3.2.1. By Authentication Type
- 8.2.6.3.2.2. By Contact Type
- 8.2.6.3.2.3. By Technology
- 8.2.6.3.2.4. By Mobility
- 8.2.6.3.2.5. By End-user

9. EUROPE BIOMETRIC SYSTEMS MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Authentication Type

9.2.2. By Contact Type

9.2.3. By Technology

9.2.4. By Mobility

9.2.5. By End-user

9.2.6. By Country

9.2.6.1. Germany Biometric Systems Market Outlook

9.2.6.1.1. Market Size & Forecast

9.2.6.1.1.1. By Value

9.2.6.1.2. Market Share & Forecast

9.2.6.1.2.1. By Authentication Type

9.2.6.1.2.2. By Contact Type

9.2.6.1.2.3. By Technology

9.2.6.1.2.4. By Mobility

9.2.6.1.2.5. By End-user

9.2.6.2. France Biometric Systems Market Outlook

9.2.6.2.1. Market Size & Forecast

9.2.6.2.1.1. By Value

9.2.6.2.2. Market Share & Forecast

9.2.6.2.2.1. By Authentication Type

9.2.6.2.2.2. By Contact Type

9.2.6.2.2.3. By Technology

9.2.6.2.2.4. By Mobility

9.2.6.2.2.5. By End-user

9.2.6.3. United Kingdom Biometric Systems Market Outlook

9.2.6.3.1. Market Size & Forecast

9.2.6.3.1.1. By Value

9.2.6.3.2. Market Share & Forecast

- 9.2.6.3.2.1. By Authentication Type
- 9.2.6.3.2.2. By Contact Type
- 9.2.6.3.2.3. By Technology
- 9.2.6.3.2.4. By Mobility
- 9.2.6.3.2.5. By End-user
- 9.2.6.4. Italy Biometric Systems Market Outlook
 - 9.2.6.4.1. Market Size & Forecast
 - 9.2.6.4.1.1. By Value
 - 9.2.6.4.2. Market Share & Forecast
 - 9.2.6.4.2.1. By Authentication Type
 - 9.2.6.4.2.2. By Contact Type
 - 9.2.6.4.2.3. By Technology
 - 9.2.6.4.2.4. By Mobility
 - 9.2.6.4.2.5. By End-user
- 9.2.6.5. Spain Biometric Systems Market Outlook
 - 9.2.6.5.1. Market Size & Forecast
 - 9.2.6.5.1.1. By Value
 - 9.2.6.5.2. Market Share & Forecast
 - 9.2.6.5.2.1. By Authentication Type
 - 9.2.6.5.2.2. By Contact Type
 - 9.2.6.5.2.3. By Technology
 - 9.2.6.5.2.4. By Mobility
 - 9.2.6.5.2.5. By End-user

10. SOUTH AMERICA BIOMETRIC SYSTEMS MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Authentication Type
 - 10.2.2. By Contact Type
 - 10.2.3. By Technology
 - 10.2.4. By Mobility
 - 10.2.5. By End-user
 - 10.2.6. By Country
 - 10.2.6.1. Brazil Biometric Systems Market Outlook
 - 10.2.6.1.1. Market Size & Forecast
 - 10.2.6.1.1.1. By Value
 - 10.2.6.1.2. Market Share & Forecast

- 10.2.6.1.2.1. By Authentication Type
- 10.2.6.1.2.2. By Contact Type
- 10.2.6.1.2.3. By Technology
- 10.2.6.1.2.4. By Mobility
- 10.2.6.1.2.5. By End-user
- 10.2.6.2. Colombia Biometric Systems Market Outlook
 - 10.2.6.2.1. Market Size & Forecast
 - 10.2.6.2.1.1. By Value
 - 10.2.6.2.2. Market Share & Forecast
 - 10.2.6.2.2.1. By Authentication Type
 - 10.2.6.2.2.2. By Contact Type
 - 10.2.6.2.2.3. By Technology
 - 10.2.6.2.2.4. By Mobility
 - 10.2.6.2.2.5. By End-user
- 10.2.6.3. Argentina Biometric Systems Market Outlook
 - 10.2.6.3.1. Market Size & Forecast
 - 10.2.6.3.1.1. By Value
 - 10.2.6.3.2. Market Share & Forecast
 - 10.2.6.3.2.1. By Authentication Type
 - 10.2.6.3.2.2. By Contact Type
 - 10.2.6.3.2.3. By Technology
 - 10.2.6.3.2.4. By Mobility
 - 10.2.6.3.2.5. By End-user

11. MIDDLE EAST & AFRICA BIOMETRIC SYSTEMS MARKET OUTLOOK

- 11.1. Market Size & Forecast
 - 11.1.1. By Value
- 11.2. Market Share & Forecast
 - 11.2.1. By Authentication Type
 - 11.2.2. By Contact Type
 - 11.2.3. By Technology
 - 11.2.4. By Mobility
 - 11.2.5. By End-user
 - 11.2.6. By Country
 - 11.2.6.1. Saudi Arabia Biometric Systems Market Outlook
 - 11.2.6.1.1. Market Size & Forecast
 - 11.2.6.1.1.1. By Value
 - 11.2.6.1.2. Market Share & Forecast

- 11.2.6.1.2.1. By Authentication Type
- 11.2.6.1.2.2. By Contact Type
- 11.2.6.1.2.3. By Technology
- 11.2.6.1.2.4. By Mobility
- 11.2.6.1.2.5. By End-user
- 11.2.6.2. UAE Biometric Systems Market Outlook
 - 11.2.6.2.1. Market Size & Forecast
 - 11.2.6.2.1.1. By Value
 - 11.2.6.2.2. Market Share & Forecast
 - 11.2.6.2.2.1. By Authentication Type
 - 11.2.6.2.2.2. By Contact Type
 - 11.2.6.2.2.3. By Technology
 - 11.2.6.2.2.4. By Mobility
 - 11.2.6.2.2.5. By End-user
- 11.2.6.3. South Africa Biometric Systems Market Outlook
 - 11.2.6.3.1. Market Size & Forecast
 - 11.2.6.3.1.1. By Value
 - 11.2.6.3.2. Market Share & Forecast
 - 11.2.6.3.2.1. By Authentication Type
 - 11.2.6.3.2.2. By Contact Type
 - 11.2.6.3.2.3. By Technology
 - 11.2.6.3.2.4. By Mobility
 - 11.2.6.3.2.5. By End-user

12. ASIA PACIFIC BIOMETRIC SYSTEMS MARKET OUTLOOK

- 12.1. Market Size & Forecast
 - 12.1.1. By Authentication Type
 - 12.1.2. By Contact Type
 - 12.1.3. By Technology
 - 12.1.4. By Mobility
 - 12.1.5. By End-user
 - 12.1.6. By Country
 - 12.1.6.1. China Biometric Systems Market Outlook
 - 12.1.6.1.1. Market Size & Forecast
 - 12.1.6.1.1.1. By Value
 - 12.1.6.1.2. Market Share & Forecast
 - 12.1.6.1.2.1. By Authentication Type
 - 12.1.6.1.2.2. By Contact Type

- 12.1.6.1.2.3. By Technology
- 12.1.6.1.2.4. By Mobility
- 12.1.6.1.2.5. By End-user
- 12.1.6.2. India Biometric Systems Market Outlook
 - 12.1.6.2.1. Market Size & Forecast
 - 12.1.6.2.1.1. By Value
 - 12.1.6.2.2. Market Share & Forecast
 - 12.1.6.2.2.1. By Authentication Type
 - 12.1.6.2.2.2. By Contact Type
 - 12.1.6.2.2.3. By Technology
 - 12.1.6.2.2.4. By Mobility
 - 12.1.6.2.2.5. By End-user
- 12.1.6.3. Japan Biometric Systems Market Outlook
 - 12.1.6.3.1. Market Size & Forecast
 - 12.1.6.3.1.1. By Value
 - 12.1.6.3.2. Market Share & Forecast
 - 12.1.6.3.2.1. By Authentication Type
 - 12.1.6.3.2.2. By Contact Type
 - 12.1.6.3.2.3. By Technology
 - 12.1.6.3.2.4. By Mobility
 - 12.1.6.3.2.5. By End-user
- 12.1.6.4. South Korea Biometric Systems Market Outlook
 - 12.1.6.4.1. Market Size & Forecast
 - 12.1.6.4.1.1. By Value
 - 12.1.6.4.2. Market Share & Forecast
 - 12.1.6.4.2.1. By Authentication Type
 - 12.1.6.4.2.2. By Contact Type
 - 12.1.6.4.2.3. By Technology
 - 12.1.6.4.2.4. By Mobility
 - 12.1.6.4.2.5. By End-user
- 12.1.6.5. Australia Biometric Systems Market Outlook
 - 12.1.6.5.1. Market Size & Forecast
 - 12.1.6.5.1.1. By Value
 - 12.1.6.5.2. Market Share & Forecast
 - 12.1.6.5.2.1. By Authentication Type
 - 12.1.6.5.2.2. By Contact Type
 - 12.1.6.5.2.3. By Technology
 - 12.1.6.5.2.4. By Mobility
 - 12.1.6.5.2.5. By End-user

13. MARKET DYNAMICS

13.1. Drivers

13.2. Challenges

14. MARKET TRENDS AND DEVELOPMENTS

15. COMPANY PROFILES

15.1. Gemalto NV (Thales Group)

15.1.1. Business Overview

15.1.2. Key Revenue and Financials

15.1.3. Recent Developments

15.1.4. Key Personnel

15.1.5. Key Product/Services Offered

15.2. Leidos Holdings Inc.

15.2.1. Business Overview

15.2.2. Key Revenue and Financials

15.2.3. Recent Developments

15.2.4. Key Personnel

15.2.5. Key Product/Services Offered

15.3. NEC Corporation

15.3.1. Business Overview

15.3.2. Key Revenue and Financials

15.3.3. Recent Developments

15.3.4. Key Personnel

15.3.5. Key Product/Services Offered

15.4. M2SYS Technology

15.4.1. Business Overview

15.4.2. Key Revenue and Financials

15.4.3. Recent Developments

15.4.4. Key Personnel

15.4.5. Key Product/Services Offered

15.5. BioEnable Technologies Pvt. Ltd

15.5.1. Business Overview

15.5.2. Key Revenue and Financials

15.5.3. Recent Developments

15.5.4. Key Personnel

- 15.5.5. Key Product/Services Offered
- 15.6. Phonexia SRO
 - 15.6.1. Business Overview
 - 15.6.2. Key Revenue and Financials
 - 15.6.3. Recent Developments
 - 15.6.4. Key Personnel
 - 15.6.5. Key Product/Services Offered
- 15.7. ImageWare Systems Inc.
 - 15.7.1. Business Overview
 - 15.7.2. Key Revenue and Financials
 - 15.7.3. Recent Developments
 - 15.7.4. Key Personnel
 - 15.7.5. Key Product/Services Offered
- 15.8. S.I.C. Biometrics Global Inc.
 - 15.8.1. Business Overview
 - 15.8.2. Key Revenue and Financials
 - 15.8.3. Recent Developments
 - 15.8.4. Key Personnel
 - 15.8.5. Key Product/Services Offered
- 15.9. Fujitsu Limited
 - 15.9.1. Business Overview
 - 15.9.2. Key Revenue and Financials
 - 15.9.3. Recent Developments
 - 15.9.4. Key Personnel
 - 15.9.5. Key Product/Services Offered
- 15.10. Aware Inc.
 - 15.10.1. Business Overview
 - 15.10.2. Key Revenue and Financials
 - 15.10.3. Recent Developments
 - 15.10.4. Key Personnel
 - 15.10.5. Key Product/Services Offered
- 15.11. Nuance Communications Inc.
 - 15.11.1. Business Overview
 - 15.11.2. Key Revenue and Financials
 - 15.11.3. Recent Developments
 - 15.11.4. Key Personnel
 - 15.11.5. Key Product/Services Offered
- 15.12. IDEMIA France SAS
 - 15.12.1. Business Overview

- 15.12.2. Key Revenue and Financials
- 15.12.3. Recent Developments
- 15.12.4. Key Personnel
- 15.12.5. Key Product/Services Offered
- 15.13. Cognitec Systems GmbH
 - 15.13.1. Business Overview
 - 15.13.2. Key Revenue and Financials
 - 15.13.3. Recent Developments
 - 15.13.4. Key Personnel
 - 15.13.5. Key Product/Services Offered
- 15.14. BioID AG
 - 15.14.1. Business Overview
 - 15.14.2. Key Revenue and Financials
 - 15.14.3. Recent Developments
 - 15.14.4. Key Personnel
 - 15.14.5. Key Product/Services Offered
- 15.15. Assa Abloy AB
 - 15.15.1. Business Overview
 - 15.15.2. Key Revenue and Financials
 - 15.15.3. Recent Developments
 - 15.15.4. Key Personnel
 - 15.15.5. Key Product/Services Offered
- 15.16. Dreamlog Identification System Inc.
 - 15.16.1. Business Overview
 - 15.16.2. Key Revenue and Financials
 - 15.16.3. Recent Developments
 - 15.16.4. Key Personnel
 - 15.16.5. Key Product/Services Offered
- 15.17. Daon Inc.
 - 15.17.1. Business Overview
 - 15.17.2. Key Revenue and Financials
 - 15.17.3. Recent Developments
 - 15.17.4. Key Personnel
 - 15.17.5. Key Product/Services Offered

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