

Biometrics in Government Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (DNA Analysis, Voice Recognition, Iris Recognition, Fingerprint Identification, Face Recognition), By Application (Latent Fingerprint Matching, Public Safety, E-Passport, Healthcare and Welfare, Border Control, Voter Registration, National ID, E-Visas), By Region, By Competition, 2018-2028

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Abstracts

Global Biometrics in Government Market was valued at USD 5.7 Billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 23.4% through 2028. Global Biometrics in the Government Market is experiencing robust growth driven by rising security concerns and the need for advanced identity verification solutions. Governments worldwide are increasingly adopting biometric technologies such as fingerprint recognition, facial recognition, and iris scanning to enhance security measures and streamline public service delivery. These technologies offer accurate and efficient means of identity verification, ensuring secure access to sensitive government facilities, border control points, and public services. Moreover, the integration of biometrics enhances efficiency in government processes, reduces fraud, and curtails identity theft. The market is also witnessing growth due to technological advancements, including the integration of artificial intelligence and machine learning, which further enhance the accuracy and reliability of biometric systems. Additionally, stringent regulatory requirements and initiatives aimed at combating terrorism and illegal immigration are fueling the market's expansion. As governments continue to prioritize national security and the seamless delivery of public services, the adoption of biometric

solutions is expected to proliferate, making the Global Biometrics in Government Market a vital and rapidly evolving sector in the modern digital age.

Key Market Drivers

Rising Connectivity and IoT Adoption

Global Biometrics in Government Market is undergoing a transformative shift driven by the escalating wave of connectivity and the widespread adoption of Internet of Things (IoT) technology. This surge in connectivity, propelled by high-speed internet, 5G networks, and ubiquitous smartphones, has fundamentally transformed how governments handle identity verification and security. Biometric technologies, including fingerprint recognition, facial recognition, and iris scanning, have seamlessly integrated into governmental systems, creating a secure and interconnected ecosystem. From border control points and government facilities to public services, biometric solutions enhance security, streamline processes, and ensure accurate identity verification. These advancements address critical aspects of modern governance, such as national security, public safety, and efficient service delivery. Governments globally are capitalizing on this trend, adopting innovative biometric solutions to cater to the evolving needs of security-conscious citizens and enhance operational efficiency. Moreover, the data generated by these biometric systems fuels insights, enabling governments to understand citizen behavior better, personalize services, and drive public engagement. As governments increasingly embrace the benefits of biometric technology, the market is poised for continuous growth, with biometrics becoming an integral part of modern governance, shaping the future of citizen identity verification globally.

Enhanced Security and Privacy Measures

The driving force behind the thriving Global Biometrics in the Government Market is the relentless focus on enhancing security and privacy. In an era where data breaches and identity theft are significant concerns, governments are diligently leveraging biometric technologies to transform how citizens interact with public services. The cornerstone of this transformation is enhanced security and privacy, characterized by unprecedented accuracy, personalization, and efficiency. Biometric systems, spanning fingerprint recognition, facial recognition, and iris scanning, are meticulously designed to anticipate and fulfill the security needs of modern governments. These systems enable secure access to sensitive government facilities, ensure accurate identification at border control points, and streamline public service delivery. The essence of this evolution lies in personalization - biometric systems provide accurate and individualized identification,

adapting functionalities to citizens' unique biometric markers. Such tailored experiences foster public trust, ensuring that citizen data is protected and used responsibly. Additionally, the insights derived from biometric data empower governments to refine their security protocols, predict security threats, and innovate proactively. Privacy concerns, paramount in citizen-centric governance, are addressed through transparent data policies and stringent adherence to international privacy regulations. The governments that can effectively navigate this landscape, ensuring the highest standards of security and privacy, are not only meeting a crucial societal demand but are also setting new benchmarks for citizen identity verification, shaping the future of governance globally.

Advancements in Artificial Intelligence and Data Analytics

The relentless surge in Global Biometrics in the Government Market can be attributed to the pivotal role played by advancements in Artificial Intelligence (AI) and Data Analytics. AI algorithms, infused into biometric systems, have unleashed a new era of intelligent identification. These sophisticated algorithms enable systems to not just collect biometric data but to interpret, learn, and respond intelligently, making them more than mere security tools – they become intelligent guardians. For instance, facial recognition systems powered by AI can analyze vast amounts of facial data, offering real-time insights into individuals' identities and behaviors, leading to more accurate and proactive security measures. Data Analytics, on the other hand, transforms the raw biometric data generated by these systems into actionable insights. Governments leverage analytics to understand citizen behavior, predict security threats, and enhance public safety. By discerning patterns from colossal datasets, governments can offer personalized security protocols, anticipate security risks, and improve public safety measures. Moreover, data analytics plays a pivotal role in ensuring the security of biometric systems and the integrity of the networks they operate on, a paramount concern in the connected world. The synergy between AI and Data Analytics is a game-changer – AI provides the intelligence, and analytics provides the meaning. This convergence fuels innovation, drives operational efficiencies, enhances public safety, and fosters a deeper understanding of security dynamics. As AI continues to evolve, becoming more sophisticated in its decision-making capabilities, and as data analytics techniques become more nuanced and insightful, the synergy between these technologies will continue to propel the Global Biometrics in Government Market into a future where every identification, every system, and every security measure is not just connected, but intelligently connected, revolutionizing how governments interact with citizen data and public safety.

Key Market Challenges

Interoperability and Standardization

Global Biometrics in the Government Market faces substantial challenges due to interoperability issues and the lack of standardized protocols. With diverse biometric technologies in use, achieving seamless integration and communication among systems from various manufacturers becomes a significant hurdle. The absence of universal standards often leads to compatibility problems, making it difficult for governments to create cohesive and interconnected identification and security solutions. As a result, governments encounter frustration and confusion when their biometric systems cannot communicate effectively with each other, impeding the market's potential for widespread adoption and growth.

Security Vulnerabilities and Privacy Concerns

Security vulnerabilities and privacy concerns pose significant challenges to Global Biometrics in the Government Market. Biometric systems, often collecting sensitive citizen data, are susceptible to cyber-attacks and data breaches. Malevolent actors can exploit these vulnerabilities, compromising citizen privacy and system functionality. Additionally, inadequate security measures in biometric systems can lead to unauthorized access and misuse of personal data. Addressing these concerns requires robust security protocols, regular software updates, and citizen education on safe biometric data usage. The market's growth is contingent on building trust through enhanced security features, ensuring governments and citizens feel confident in adopting biometric solutions without compromising their privacy and data security.

Data Management and Analytics Complexity

The complexity of managing vast amounts of biometric data generated by identification systems poses a significant challenge. Biometric systems produce enormous volumes of data, requiring sophisticated analytics tools to extract meaningful insights. Governments face challenges in effectively analyzing this data to make informed decisions. Moreover, ensuring data accuracy, reliability, and compliance with regulations adds another layer of complexity. Streamlining data management processes and developing user-friendly analytics tools are crucial to harnessing the full potential of biometric data. Simplifying these complexities is essential for enabling governments to derive actionable insights from biometric systems, enhancing their overall utility and value.

Energy Efficiency and Sustainability

Energy efficiency and sustainability are critical challenges in Global Biometrics in the Government Market. Many biometric systems require energy-intensive computations, directly impacting their environmental footprint. Governments demand energy-efficient solutions that minimize the ecological impact of these systems. Additionally, the production and disposal of biometric devices contribute to electronic waste, posing environmental concerns. Implementing energy-efficient designs, promoting renewable energy sources, and encouraging responsible disposal practices are essential to address these challenges. Striking a balance between functionality and energy efficiency is crucial for sustainable biometric adoption, ensuring systems are environmentally friendly throughout their lifecycle.

Regulatory Compliance and Legal Frameworks

Navigating diverse regulatory frameworks and ensuring compliance with international laws is a significant challenge for Global Biometrics in the Government Market. Biometric systems often operate across borders, requiring governments to adhere to varying regulations related to data protection, cybersecurity, and citizen rights. Keeping up with evolving legal requirements and standards necessitates continuous efforts from governmental bodies. Non-compliance can lead to legal liabilities, hindering market growth. Establishing a harmonized global approach to biometric regulations and promoting government self-regulation are vital to fostering a conducive environment for biometric innovation while ensuring citizen protection and legal compliance. Governmental collaboration and proactive engagement with regulatory bodies are essential to overcome these challenges and create a favorable ecosystem for Global Biometrics in Government Market to thrive.

Key Market Trends

Proliferation of Biometric Solutions

Global Biometrics in Government Market is experiencing an unprecedented surge, primarily driven by the widespread adoption of biometric solutions. Biometric authentication methods, including fingerprint recognition, facial recognition, and iris scanning, have become ubiquitous, seamlessly integrating into various government applications. This proliferation is reshaping how government agencies interact with citizens and manage secure data, fostering a connected ecosystem. As biometric

solutions become more advanced and diverse, the market experiences exponential growth. From biometric border control systems enhancing national security to biometric identification in government databases, the biometrics landscape is evolving rapidly, with governments embracing the accuracy and efficiency offered by these solutions.

Advanced Data Processing and Real-Time Analysis

Advanced data processing and real-time analysis have emerged as pivotal trends in the Global Biometrics in Government Market. With the increasing volume of citizen data and security requirements, processing this data in real-time has become essential. Advanced algorithms enable quicker analysis, reducing response times for biometric applications. This trend is particularly significant in scenarios requiring instant identification, such as law enforcement and border control. By processing data efficiently, biometric systems not only ensure faster response but also enhance overall system performance, optimizing security protocols and citizen service delivery.

Integration of Artificial Intelligence and Machine Learning

The integration of Artificial Intelligence (AI) and machine learning algorithms into government biometric systems is a transformative trend. AI-driven biometric solutions can analyze vast datasets, recognize patterns, and adapt their identification methods based on evolving threats. Automated facial recognition in surveillance cameras and AI-driven fraud detection in citizen identification are notable examples. AI-powered biometric systems offer precise identification, anticipate security threats, and enhance data analysis capabilities. As AI technology advances, its integration with biometric systems is expected to become more sophisticated, further enriching security measures and optimizing government operations.

Voice and Natural Language Interfaces

Voice and natural language interfaces have gained significant traction in the Biometrics in Government Market. Government agencies are deploying virtual assistants and voice-controlled systems, allowing citizens to interact with government services using natural language commands. This trend simplifies citizen interactions, making government services more accessible, especially for individuals with limited technical expertise. The increasing accuracy of voice recognition technology and the proliferation of smart devices contribute to the widespread adoption of voice-controlled biometric systems, transforming how citizens interact with government databases and secure services.

Data Privacy and Security Enhancement

Data privacy and security have become paramount concerns in Biometrics in the Government Market. With the influx of sensitive citizen data, ensuring robust security measures is crucial. Government agencies are focusing on enhancing biometric system security, implementing encryption protocols, and promoting secure data transmission. Additionally, the implementation of blockchain technology for secure and immutable data storage is gaining prominence. Citizens are becoming more vigilant about data privacy, prompting governments to prioritize security features and provide transparent information about biometric data usage practices. Strengthening data privacy and security not only builds citizen trust but also safeguards against potential cyber threats, fostering a secure environment for biometric adoption and innovation in government applications.

Segmental Insights

Type Insights

In 2022, among the various biometric identification technologies, Fingerprint Identification dominated Global Biometrics in Government Market and is expected to maintain its dominance during the forecast period. Fingerprint identification technology has long been a cornerstone in government applications due to its reliability, accuracy, and widespread acceptance. Governments across the globe have extensively utilized fingerprint biometrics for citizen identification, law enforcement, border control, and access control purposes. The technology's efficiency in large-scale identity management projects, combined with continuous advancements such as multi-factor authentication and live-scan systems, has solidified its position as the leading biometric solution in government sectors. Moreover, fingerprint identification is often the preferred choice due to its non-intrusive nature and established legal framework, ensuring citizens' privacy rights are respected. As governments continue to invest in upgrading their identification and security infrastructures, fingerprint identification technology is poised to maintain its dominance, offering a secure, convenient, and privacy-sensitive method for citizen authentication and verification. Its adaptability to various applications, coupled with ongoing research and development, further cements its leading role in the evolving landscape of Global Biometrics in Government Market.

Application Insights

In 2022, the Border Control application segment dominated Global Biometrics in

Government Market and is anticipated to maintain its dominance during the forecast period. The implementation of biometric technology in border control systems has significantly enhanced security measures at international borders, ensuring accurate identification and authentication of travelers. Biometric solutions, including fingerprint, facial recognition, and iris scanning, play a pivotal role in verifying travelers' identities, preventing unauthorized entry, and enhancing overall border management efficiency. The demand for robust border control solutions has surged due to increasing concerns related to national security and the rising number of international travelers. Biometric systems offer rapid and precise identification capabilities, enabling border authorities to process a large volume of travelers efficiently. Furthermore, these systems contribute to the prevention of identity fraud and the detection of individuals with suspicious backgrounds, thereby bolstering national security efforts. As nations continue to prioritize border security, investments in advanced biometric technologies are expected to rise, driving the dominance of the Border Control application segment. The integration of biometrics in border control not only ensures the safety of nations but also expedites immigration procedures, providing a seamless experience for travelers while maintaining stringent security standards. Consequently, the Border Control application segment is poised to maintain its leadership in Global Biometrics in Government Market, addressing the critical need for secure and efficient border management solutions worldwide.

Regional Insights

North American region emerged as the dominant force in the Global Biometrics in Government Market, and this trend is anticipated to continue during the forecast period. North America's dominance can be attributed to several factors, including widespread government initiatives aimed at enhancing national security, coupled with significant investments in advanced biometric technologies. Countries in this region, particularly the United States and Canada, have been at the forefront of adopting biometric solutions across various government sectors, including law enforcement, immigration, and public safety. The presence of key biometric technology providers, coupled with robust research and development activities, has further propelled the market's growth. Additionally, the stringent regulatory framework and increased awareness about the benefits of biometrics for ensuring public safety and efficient governance have contributed to the region's market leadership. Furthermore, the ongoing collaborations between governments and technology companies to develop innovative and secure biometric solutions have bolstered the market's momentum in North America. As governments continue to prioritize security measures and invest in cutting-edge biometric technologies, North America is expected to maintain its dominance in the

Global Biometrics in Government Market. The region's strategic focus on security initiatives, coupled with a thriving ecosystem of technology innovation, positions it as a key driver of the market's growth, making it the leading force in the biometrics sector worldwide.

Key Market Players

NEC Corporation

Gemalto N.V. (Thales Group)

IDEMIA

Aware, Inc.

Crossmatch (HID Global)

Suprema Inc.

3M Cogent Inc. (Gemalto N.V.)

Fujitsu Limited

HID Global Corporation

BIO-key International, Inc.

M2SYS Technology

SecuGen Corporation

Cognitec Systems GmbH

Report Scope:

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

Biometrics in Government Market, By Type:

DNA Analysis

Voice Recognition

Iris Recognition

Fingerprint Identification

Face Recognition

Biometrics in Government Market, By Application:

Latent Fingerprint Matching

Public Safety

E-Passport

Healthcare and Welfare

Border Control

Voter Registration

National ID

E-Visas

Biometrics in Government Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Belgium

Asia-Pacific

China

India

Japan

Australia

South Korea

Indonesia

Vietnam

South America

Brazil

Argentina

Colombia

Chile

Peru

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

Israel

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in Global Biometrics in Government Market.

Available Customizations:

Global Biometrics in Government 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. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
 - 2.5.1. Secondary Research
 - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
 - 2.6.1. The Bottom-Up Approach
 - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
 - 2.8.1. Data Triangulation & Validation

3. EXECUTIVE SUMMARY

4. IMPACT OF COVID-19 ON GLOBAL BIOMETRICS IN GOVERNMENT MARKET

5. VOICE OF CUSTOMER

6. GLOBAL BIOMETRICS IN GOVERNMENT MARKET OVERVIEW

7. GLOBAL BIOMETRICS IN GOVERNMENT MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Type (DNA Analysis, Voice Recognition, Iris Recognition, Fingerprint Identification, Face Recognition)

7.2.2. By Application (Latent Fingerprint Matching, Public Safety, E-Passport, Healthcare and Welfare, Border Control, Voter Registration, National ID, E-Visas)

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

7.3. By Company (2022)

7.4. Market Map

8. NORTH AMERICA BIOMETRICS IN GOVERNMENT MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Type

8.2.2. By Application

8.2.3. By Country

8.3. North America: Country Analysis

8.3.1. United States Biometrics in Government Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Type

8.3.1.2.2. By Application

8.3.2. Canada Biometrics in Government Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Type

8.3.2.2.2. By Application

8.3.3. Mexico Biometrics in Government Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Type

8.3.3.2.2. By Application

9. EUROPE BIOMETRICS IN GOVERNMENT MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Type

9.2.2. By Application

9.2.3. By Country

9.3. Europe: Country Analysis

9.3.1. Germany Biometrics in Government Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Type

9.3.1.2.2. By Application

9.3.2. France Biometrics in Government Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Type

9.3.2.2.2. By Application

9.3.3. United Kingdom Biometrics in Government Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Type

9.3.3.2.2. By Application

9.3.4. Italy Biometrics in Government Market Outlook

9.3.4.1. Market Size & Forecast

9.3.4.1.1. By Value

9.3.4.2. Market Share & Forecast

9.3.4.2.1. By Type

9.3.4.2.2. By Application

9.3.5. Spain Biometrics in Government Market Outlook

9.3.5.1. Market Size & Forecast

9.3.5.1.1. By Value

9.3.5.2. Market Share & Forecast

- 9.3.5.2.1. By Type
- 9.3.5.2.2. By Application
- 9.3.6. Belgium Biometrics in Government Market Outlook
 - 9.3.6.1. Market Size & Forecast
 - 9.3.6.1.1. By Value
 - 9.3.6.2. Market Share & Forecast
 - 9.3.6.2.1. By Type
 - 9.3.6.2.2. By Application

10. SOUTH AMERICA BIOMETRICS IN GOVERNMENT MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Type
 - 10.2.2. By Application
 - 10.2.3. By Country
- 10.3. South America: Country Analysis
 - 10.3.1. Brazil Biometrics in Government Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Type
 - 10.3.1.2.2. By Application
 - 10.3.2. Colombia Biometrics in Government Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Type
 - 10.3.2.2.2. By Application
 - 10.3.3. Argentina Biometrics in Government Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Type
 - 10.3.3.2.2. By Application
 - 10.3.4. Chile Biometrics in Government Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Value

- 10.3.4.2. Market Share & Forecast
 - 10.3.4.2.1. By Type
 - 10.3.4.2.2. By Application
- 10.3.5. Peru Biometrics in Government Market Outlook
 - 10.3.5.1. Market Size & Forecast
 - 10.3.5.1.1. By Value
 - 10.3.5.2. Market Share & Forecast
 - 10.3.5.2.1. By Type
 - 10.3.5.2.2. By Application

11. MIDDLE EAST & AFRICA BIOMETRICS IN GOVERNMENT MARKET OUTLOOK

- 11.1. Market Size & Forecast
 - 11.1.1. By Value
- 11.2. Market Share & Forecast
 - 11.2.1. By Type
 - 11.2.2. By Application
 - 11.2.3. By Country
- 11.3. Middle East & Africa: Country Analysis
 - 11.3.1. Saudi Arabia Biometrics in Government Market Outlook
 - 11.3.1.1. Market Size & Forecast
 - 11.3.1.1.1. By Value
 - 11.3.1.2. Market Share & Forecast
 - 11.3.1.2.1. By Type
 - 11.3.1.2.2. By Application
 - 11.3.2. UAE Biometrics in Government Market Outlook
 - 11.3.2.1. Market Size & Forecast
 - 11.3.2.1.1. By Value
 - 11.3.2.2. Market Share & Forecast
 - 11.3.2.2.1. By Type
 - 11.3.2.2.2. By Application
 - 11.3.3. South Africa Biometrics in Government Market Outlook
 - 11.3.3.1. Market Size & Forecast
 - 11.3.3.1.1. By Value
 - 11.3.3.2. Market Share & Forecast
 - 11.3.3.2.1. By Type
 - 11.3.3.2.2. By Application
 - 11.3.4. Turkey Biometrics in Government Market Outlook
 - 11.3.4.1. Market Size & Forecast

- 11.3.4.1.1. By Value
- 11.3.4.2. Market Share & Forecast
 - 11.3.4.2.1. By Type
 - 11.3.4.2.2. By Application
- 11.3.5. Israel Biometrics in Government Market Outlook
 - 11.3.5.1. Market Size & Forecast
 - 11.3.5.1.1. By Value
 - 11.3.5.2. Market Share & Forecast
 - 11.3.5.2.1. By Type
 - 11.3.5.2.2. By Application

12. ASIA PACIFIC BIOMETRICS IN GOVERNMENT MARKET OUTLOOK

- 12.1. Market Size & Forecast
 - 12.1.1. By Type
 - 12.1.2. By Application
 - 12.1.3. By Country
- 12.2. Asia-Pacific: Country Analysis
 - 12.2.1. China Biometrics in Government Market Outlook
 - 12.2.1.1. Market Size & Forecast
 - 12.2.1.1.1. By Value
 - 12.2.1.2. Market Share & Forecast
 - 12.2.1.2.1. By Type
 - 12.2.1.2.2. By Application
 - 12.2.2. India Biometrics in Government Market Outlook
 - 12.2.2.1. Market Size & Forecast
 - 12.2.2.1.1. By Value
 - 12.2.2.2. Market Share & Forecast
 - 12.2.2.2.1. By Type
 - 12.2.2.2.2. By Application
 - 12.2.3. Japan Biometrics in Government Market Outlook
 - 12.2.3.1. Market Size & Forecast
 - 12.2.3.1.1. By Value
 - 12.2.3.2. Market Share & Forecast
 - 12.2.3.2.1. By Type
 - 12.2.3.2.2. By Application
 - 12.2.4. South Korea Biometrics in Government Market Outlook
 - 12.2.4.1. Market Size & Forecast
 - 12.2.4.1.1. By Value

- 12.2.4.2. Market Share & Forecast
 - 12.2.4.2.1. By Type
 - 12.2.4.2.2. By Application
- 12.2.5. Australia Biometrics in Government Market Outlook
 - 12.2.5.1. Market Size & Forecast
 - 12.2.5.1.1. By Value
 - 12.2.5.2. Market Share & Forecast
 - 12.2.5.2.1. By Type
 - 12.2.5.2.2. By Application
- 12.2.6. Indonesia Biometrics in Government Market Outlook
 - 12.2.6.1. Market Size & Forecast
 - 12.2.6.1.1. By Value
 - 12.2.6.2. Market Share & Forecast
 - 12.2.6.2.1. By Type
 - 12.2.6.2.2. By Application
- 12.2.7. Vietnam Biometrics in Government Market Outlook
 - 12.2.7.1. Market Size & Forecast
 - 12.2.7.1.1. By Value
 - 12.2.7.2. Market Share & Forecast
 - 12.2.7.2.1. By Type
 - 12.2.7.2.2. By Application

13. MARKET DYNAMICS

- 13.1. Drivers
- 13.2. Challenges

14. MARKET TRENDS AND DEVELOPMENTS

15. COMPANY PROFILES

- 15.1. NEC Corporation
 - 15.1.1. Business Overview
 - 15.1.2. Key Revenue and Financials
 - 15.1.3. Recent Developments
 - 15.1.4. Key Personnel/Key Contact Person
 - 15.1.5. Key Product/Services Offered
- 15.2. Gemalto N.V. (Thales Group)

- 15.2.1. Business Overview
- 15.2.2. Key Revenue and Financials
- 15.2.3. Recent Developments
- 15.2.4. Key Personnel/Key Contact Person
- 15.2.5. Key Product/Services Offered
- 15.3. IDEMIA
 - 15.3.1. Business Overview
 - 15.3.2. Key Revenue and Financials
 - 15.3.3. Recent Developments
 - 15.3.4. Key Personnel/Key Contact Person
 - 15.3.5. Key Product/Services Offered
- 15.4. Aware, Inc.
 - 15.4.1. Business Overview
 - 15.4.2. Key Revenue and Financials
 - 15.4.3. Recent Developments
 - 15.4.4. Key Personnel/Key Contact Person
 - 15.4.5. Key Product/Services Offered
- 15.5. Crossmatch (HID Global)
 - 15.5.1. Business Overview
 - 15.5.2. Key Revenue and Financials
 - 15.5.3. Recent Developments
 - 15.5.4. Key Personnel/Key Contact Person
 - 15.5.5. Key Product/Services Offered
- 15.6. Suprema Inc.
 - 15.6.1. Business Overview
 - 15.6.2. Key Revenue and Financials
 - 15.6.3. Recent Developments
 - 15.6.4. Key Personnel/Key Contact Person
 - 15.6.5. Key Product/Services Offered
- 15.7. 3M Cogent Inc. (Gemalto N.V.)
 - 15.7.1. Business Overview
 - 15.7.2. Key Revenue and Financials
 - 15.7.3. Recent Developments
 - 15.7.4. Key Personnel/Key Contact Person
 - 15.7.5. Key Product/Services Offered
- 15.8. Fujitsu Limited
 - 15.8.1. Business Overview
 - 15.8.2. Key Revenue and Financials
 - 15.8.3. Recent Developments

- 15.8.4. Key Personnel/Key Contact Person
- 15.8.5. Key Product/Services Offered
- 15.9. HID Global Corporation
 - 15.9.1. Business Overview
 - 15.9.2. Key Revenue and Financials
 - 15.9.3. Recent Developments
 - 15.9.4. Key Personnel/Key Contact Person
 - 15.9.5. Key Product/Services Offered
- 15.10. BIO-key International, Inc.
 - 15.10.1. Business Overview
 - 15.10.2. Key Revenue and Financials
 - 15.10.3. Recent Developments
 - 15.10.4. Key Personnel/Key Contact Person
 - 15.10.5. Key Product/Services Offered
- 15.11. M2SYS Technology
 - 15.11.1. Business Overview
 - 15.11.2. Key Revenue and Financials
 - 15.11.3. Recent Developments
 - 15.11.4. Key Personnel/Key Contact Person
 - 15.11.5. Key Product/Services Offered
- 15.12. SecuGen Corporation
 - 15.12.1. Business Overview
 - 15.12.2. Key Revenue and Financials
 - 15.12.3. Recent Developments
 - 15.12.4. Key Personnel/Key Contact Person
 - 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/Key Contact Person
 - 15.13.5. Key Product/Services Offered

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