

Automated Fingerprint Identification System Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Component

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Abstracts

Global Automated Fingerprint Identification System Market was valued at USD 9.19 billion in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 18.92% through 2029. The escalating incidents of identity theft, fraud, and unauthorized access to sensitive information are driving the adoption of AFIS across various sectors. Traditional methods of identification, such as passwords or ID cards, are susceptible to breaches. AFIS offers a more secure alternative by relying on unique biometric identifiers, such as fingerprints. The technology's ability to accurately verify and authenticate individuals helps in mitigating the risks associated with identity-related crimes.

Key Market Drivers

Increasing Demand for Enhanced Security Measures

The Global Automated Fingerprint Identification System (AFIS) market is being driven by the escalating demand for enhanced security measures across various sectors. With the rising concerns related to identity theft, unauthorized access, and fraudulent activities, organizations and governments worldwide are actively seeking advanced technologies to bolster their security infrastructure. AFIS, with its ability to accurately and rapidly identify individuals based on their unique fingerprints, has emerged as a crucial tool in this endeavor.

One of the primary reasons fueling the demand for AFIS is its unmatched accuracy in biometric identification. Traditional methods of identification, such as passwords or ID cards, are susceptible to breaches and frauds. AFIS provides a more secure alternative

by relying on the distinctiveness of fingerprints, ensuring that access to sensitive information or restricted areas is granted only to authorized individuals. This heightened level of security is particularly vital in critical sectors such as law enforcement, border control, and national security.

The increasing integration of AFIS into various applications, including criminal investigations, background checks, and civil identification, is propelling market growth. Governments worldwide are investing significantly in upgrading their public safety infrastructure, contributing to the expanding adoption of AFIS. As a result, the market is witnessing a surge in demand for cutting-edge fingerprint identification systems, driving innovation and advancements in the technology.

Growing Use of Biometrics in Financial Services

The financial services sector is experiencing a robust adoption of biometric technologies, and AFIS is at the forefront of this trend. The need for secure and seamless authentication in banking and financial transactions is steering the demand for advanced fingerprint identification systems. AFIS offers a reliable and efficient means of verifying the identity of individuals, reducing the risk of fraudulent activities such as unauthorized transactions and identity theft.

Banks and financial institutions are increasingly deploying AFIS to enhance the security of customer accounts, online transactions, and ATMs. The technology ensures that only authorized individuals can access financial services, protecting sensitive information and preventing financial losses. Additionally, AFIS contributes to the streamlining of customer onboarding processes, reducing the time and resources required for identity verification.

The global shift towards digital banking and the proliferation of mobile payment systems further amplify the importance of biometric authentication, with AFIS emerging as a key enabler. As financial institutions continue to prioritize security and customer convenience, the demand for AFIS in the financial services sector is poised for sustained growth.

Rising Government Initiatives for National Security

Government initiatives aimed at bolstering national security are playing a pivotal role in driving the growth of the Global Automated Fingerprint Identification System market. AFIS is a crucial component in the arsenal of tools used by law enforcement agencies

and border control authorities to ensure public safety and protect national interests.

Governments worldwide are investing in modernizing their security infrastructure, with a focus on implementing biometric technologies for identification and verification purposes. AFIS, with its ability to rapidly match and identify fingerprints against large databases, is instrumental in criminal investigations, border control, and counter-terrorism efforts.

The increasing incidence of transnational crimes and the need for effective border management have prompted governments to adopt AFIS as a key technology in their security frameworks. The system's capability to provide real-time and accurate identification of individuals aids in preventing illegal border crossings, tracking criminal activities, and maintaining overall national security.

Collaborative efforts between governments and technology providers to implement large-scale AFIS projects contribute to the market's growth. As countries prioritize the development of robust security ecosystems, the demand for automated fingerprint identification systems is anticipated to witness significant expansion in the coming years.

Key Market Challenges

Privacy Concerns and Ethical Dilemmas

One of the foremost challenges facing the Global Automated Fingerprint Identification System (AFIS) market revolves around the growing concerns related to privacy and ethical considerations. As AFIS technology becomes more pervasive across various sectors, there is an increasing need to balance the benefits of enhanced security with the protection of individuals' privacy rights.

The collection and storage of biometric data, particularly fingerprints, raise significant privacy challenges. Individuals are apprehensive about the potential misuse of their sensitive information, leading to fears of identity theft or unauthorized access to personal details. Additionally, the risk of surveillance and tracking based on fingerprint data adds another layer of concern.

Governments, organizations, and technology providers involved in AFIS deployment must navigate a delicate balance between strengthening security measures and respecting individuals' right to privacy. Developing robust regulatory frameworks and

standards for the responsible use of biometric data is crucial to address these concerns. Striking the right balance will be essential to gain public trust and foster widespread acceptance of AFIS technologies.

Interoperability and Standardization Issues

The lack of interoperability and standardization poses a significant challenge to the seamless integration and functioning of Automated Fingerprint Identification Systems on a global scale. As AFIS technologies are adopted by various entities, including government agencies, law enforcement, and private organizations, the absence of uniform standards can impede collaboration and data sharing.

Interoperability challenges arise when different systems, often procured from different vendors, struggle to communicate and exchange information effectively. This issue becomes particularly critical in situations where cross-border collaborations are necessary, such as international criminal investigations or information sharing among allied nations.

Establishing global standards for AFIS technology is essential to overcome interoperability challenges. These standards should encompass data formats, communication protocols, and encryption methods to ensure seamless integration and interoperability. Collaborative efforts between industry stakeholders, governments, and international organizations are crucial to develop and implement such standards, fostering a more interconnected and effective global AFIS ecosystem.

Despite significant advancements, Automated Fingerprint Identification Systems still grapple with technological limitations, leading to challenges such as false positives and false negatives. False positives occur when the system incorrectly matches a fingerprint to an incorrect identity, potentially leading to wrongful accusations. On the other hand, false negatives happen when the system fails to match a fingerprint with an existing record, potentially allowing unauthorized access.

Technological limitations can arise due to factors such as the quality of fingerprint images, variations in fingerprint patterns, and the complexity of matching algorithms. Environmental conditions, such as poor lighting or device malfunctions, can also contribute to inaccuracies in identification. These challenges are particularly pronounced in real-world scenarios where fingerprints may be smudged, incomplete, or distorted.

Addressing these technological limitations requires continuous research and development efforts to improve the accuracy and reliability of AFIS systems. Advances in image capture technology, machine learning algorithms, and data preprocessing techniques are essential to mitigate false positives and negatives. Additionally, ongoing training and calibration of AFIS systems are crucial to adapt to evolving fingerprint patterns and ensure optimal performance in diverse operational environments. Striking the right balance between accuracy and efficiency remains a persistent challenge for the Global Automated Fingerprint Identification System market.

Key Market Trends

Integration of Artificial Intelligence for Enhanced Accuracy and Efficiency

A prominent trend shaping the Global Automated Fingerprint Identification System (AFIS) market is the increasing integration of artificial intelligence (AI) to enhance accuracy and efficiency in fingerprint identification processes. AI, particularly machine learning algorithms, plays a pivotal role in transforming traditional AFIS systems into more intelligent and adaptive solutions.

Machine learning algorithms enable AFIS systems to continuously learn and improve their ability to match fingerprints accurately. These algorithms analyze vast datasets of fingerprint patterns, allowing the system to recognize subtle nuances and variations that may be challenging for traditional methods. This adaptive learning capability is especially valuable in addressing the inherent challenges posed by factors like image quality, variations in fingerprint patterns, and changes over time.

AI-powered AFIS systems can automate the extraction of features from fingerprint images, reducing the dependency on manual intervention. This not only accelerates the identification process but also minimizes the risk of human error. As the technology continues to evolve, AFIS solutions are becoming more sophisticated in handling complex scenarios, contributing to higher accuracy rates and improved overall performance.

The integration of AI also extends to anomaly detection, enabling AFIS systems to identify unusual patterns or discrepancies in fingerprint data. This is particularly relevant in security applications, where the detection of fraudulent activities or attempts to manipulate biometric data is critical. Overall, the trend of incorporating artificial intelligence into AFIS reflects a commitment to advancing biometric technologies, making them more reliable and adaptable to the evolving needs of various industries.

Mobile Biometrics and On-the-Go Authentication

Another significant trend in the Global Automated Fingerprint Identification System market is the increasing adoption of mobile biometrics and on-the-go authentication solutions. As smartphones and mobile devices become ubiquitous, the demand for convenient and secure biometric authentication methods has surged, leading to the integration of AFIS technologies into mobile platforms.

Mobile biometrics leverage the built-in fingerprint sensors on smartphones to provide users with a seamless and secure means of authentication. This trend is particularly evident in applications such as mobile banking, device unlocking, and secure access to applications and services. Users appreciate the speed and convenience of fingerprint authentication, and AFIS technology ensures a high level of accuracy and security in these mobile environments.

The shift towards mobile biometrics is driven by the desire for frictionless user experiences without compromising security. AFIS technology on mobile devices enables rapid fingerprint matching, allowing users to unlock their phones or authorize transactions with a simple touch. This trend aligns with the broader movement towards biometric authentication as a preferred method over traditional passwords or PINs, offering a more user-friendly and secure alternative.

The integration of AFIS into mobile devices aligns with the broader concept of identity management on the go. Whether it's for border control, law enforcement, or enterprise applications, the ability to perform fingerprint identification in real-time using mobile devices enhances flexibility and responsiveness in various scenarios. As technology continues to advance, the trend of mobile biometrics is expected to play a crucial role in shaping the future of the AFIS market.

Segmental Insights

Component Insights

The Software segment emerged as the dominating segment in 2023. One of the primary components within the software segment is the matching algorithm, a critical element of AFIS responsible for comparing captured fingerprints with those stored in the database. Advancements in matching algorithms, particularly those leveraging artificial intelligence and machine learning, are enhancing the accuracy and speed of fingerprint

identification. These algorithms play a crucial role in reducing false positives and negatives, thereby improving the overall reliability of AFIS. Biometric software is another vital aspect, encompassing the algorithms and protocols for capturing, storing, and processing fingerprint data. The sophistication of biometric software directly impacts the system's capability to handle variations in fingerprint patterns, image quality, and environmental conditions. Ongoing research and development in this area aim to optimize these algorithms for enhanced performance across diverse scenarios.

The effectiveness of an AFIS relies heavily on the management and integration of vast fingerprint databases. Database management software within this segment is designed to organize, store, and retrieve fingerprint records efficiently. As the volume of fingerprint data continues to grow, these software solutions must scale to handle large datasets securely and facilitate rapid searches. Integration software is crucial for seamless collaboration with other systems and applications. This includes interoperability with law enforcement databases, border control systems, and other security infrastructure. Efforts to standardize data formats and communication protocols are ongoing to enhance the compatibility and connectivity of AFIS with various platforms.

The user interface is a critical aspect of AFIS software, influencing the user experience for operators and administrators. Intuitive interfaces with features like real-time monitoring, customizable dashboards, and easy navigation contribute to the overall usability of the system. User-friendly interfaces are particularly important in applications such as law enforcement and border control where rapid decision-making is essential. Access control software ensures that only authorized personnel have the right to access and manage sensitive fingerprint data. This includes user authentication, role-based access control, and encryption mechanisms to safeguard against unauthorized access. As the importance of data security and privacy continues to grow, access control software remains a key focus within the AFIS software segment.

Regional Insights

North America emerged as the dominating region in 2023, holding the largest market share. Governments in North America, particularly in the United States, have been at the forefront of adopting AFIS for enhancing security measures. Federal agencies, such as the Federal Bureau of Investigation (FBI), deploy AFIS for criminal investigations, background checks, and maintaining comprehensive fingerprint databases. Additionally, border control agencies leverage AFIS to strengthen immigration and security protocols, contributing to national security efforts. State and local law enforcement agencies

across North America also employ AFIS to streamline criminal identification processes and enhance public safety. The commitment of governments to invest in advanced biometric technologies underscores the region's prominence in the global AFIS market.

The integration of AFIS in law enforcement agencies across North America has been instrumental in improving the efficiency and accuracy of criminal investigations. AFIS technology allows for rapid and accurate identification of individuals based on fingerprints, aiding law enforcement in solving crimes, apprehending suspects, and maintaining public order. The use of AFIS in booking stations, crime scene analysis, and forensic investigations has become standard practice. Advanced features such as latent fingerprint matching contribute to the effectiveness of law enforcement efforts, making North America a key market for AFIS solutions in the context of criminal justice.

Given the geographical expanse and shared borders, North American countries emphasize robust border security and immigration control. AFIS is widely utilized at border crossings and immigration checkpoints to verify the identities of travelers, detect individuals with criminal records, and prevent illegal immigration. The implementation of AFIS in border security aligns with efforts to enhance national security and control the movement of individuals across borders. The technology's ability to quickly and accurately identify individuals supports seamless and secure border management.

Beyond government applications, the private sector in North America has increasingly adopted AFIS for various purposes. Industries such as finance, healthcare, and enterprise security deploy fingerprint identification systems to enhance access control, secure sensitive information, and provide convenient authentication methods. The integration of AFIS in private sector applications contributes to the region's overall market growth. Financial institutions, in particular, leverage biometric technologies, including AFIS, to strengthen identity verification in banking transactions and secure access to digital services.

North America is a hub for technological innovation, and research and development initiatives in the field of biometrics and AFIS are prominent in the region. Investments in developing advanced algorithms, improving image capture technologies, and enhancing the overall performance of AFIS systems contribute to the region's leadership in the global market. Collaboration between academic institutions, technology companies, and government agencies in North America fosters innovation, leading to the continuous evolution of AFIS capabilities. Research and development efforts aim to address challenges, improve accuracy, and expand the applications of AFIS across different industries.

Key Market Players

Thales SA

NEC Corporation

Synaptics Incorporated

SecuGen Corporation

HID Global Corporation

Precise Biometrics AB

Innovatrics, s.r.o.

Suprema Inc.

Aware, Inc.

DERMALOG Identification Systems GmbH

Report Scope:

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

Automated Fingerprint Identification System Market, By Component:

Software

Hardware

Automated Fingerprint Identification System Market, By Search Type:

Tenprint Search

Latent Search

Automated Fingerprint Identification System Market, By Application:

Commercial

Government

BFSI

Healthcare

Hospitality

Others

Automated Fingerprint Identification System Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Netherlands

Belgium

Asia-Pacific

China

India

Japan

Australia

South Korea

Thailand

Malaysia

South America

Brazil

Argentina

Colombia

Chile

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Automated Fingerprint Identification System Market.

Available Customizations:

Global Automated Fingerprint Identification System Market report with the given market data, TechSci 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 AUTOMATED FINGERPRINT IDENTIFICATION SYSTEM MARKET

5. VOICE OF CUSTOMER

6. GLOBAL AUTOMATED FINGERPRINT IDENTIFICATION SYSTEM MARKET OVERVIEW

7. GLOBAL AUTOMATED FINGERPRINT IDENTIFICATION SYSTEM MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Component (Software & Hardware)

7.2.2. By Search Type (Tenprint Search and Latent Search)

7.2.3. By Application (Commercial, Government, BFSI, Healthcare, Hospitality and Others)

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

7.3. By Company (2023)

7.4. Market Map

8. NORTH AMERICA AUTOMATED FINGERPRINT IDENTIFICATION SYSTEM MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Component

8.2.2. By Search Type

8.2.3. By Application

8.2.4. By Country

8.3. North America: Country Analysis

8.3.1. United States Automated Fingerprint Identification System 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 Component

8.3.1.2.2. By Search Type

8.3.1.2.3. By Application

8.3.2. Canada Automated Fingerprint Identification System 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 Component

8.3.2.2.2. By Search Type

8.3.2.2.3. By Application

8.3.3. Mexico Automated Fingerprint Identification System 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 Component

8.3.3.2.2. By Search Type

8.3.3.2.3. By Application

9. EUROPE AUTOMATED FINGERPRINT IDENTIFICATION SYSTEM MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Component

9.2.2. By Search Type

9.2.3. By Application

9.2.4. By Country

9.3. Europe: Country Analysis

9.3.1. Germany Automated Fingerprint Identification System 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 Component

9.3.1.2.2. By Search Type

9.3.1.2.3. By Application

9.3.2. France Automated Fingerprint Identification System 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 Component

9.3.2.2.2. By Search Type

9.3.2.2.3. By Application

9.3.3. United Kingdom Automated Fingerprint Identification System 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 Component

9.3.3.2.2. By Search Type

9.3.3.2.3. By Application

9.3.4. Italy Automated Fingerprint Identification System 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 Component
 - 9.3.4.2.2. By Search Type
 - 9.3.4.2.3. By Application
- 9.3.5. Spain Automated Fingerprint Identification System 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 Component
 - 9.3.5.2.2. By Search Type
 - 9.3.5.2.3. By Application
- 9.3.6. Netherlands Automated Fingerprint Identification System 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 Component
 - 9.3.6.2.2. By Search Type
 - 9.3.6.2.3. By Application
- 9.3.7. Belgium Automated Fingerprint Identification System Market Outlook
 - 9.3.7.1. Market Size & Forecast
 - 9.3.7.1.1. By Value
 - 9.3.7.2. Market Share & Forecast
 - 9.3.7.2.1. By Component
 - 9.3.7.2.2. By Search Type
 - 9.3.7.2.3. By Application

10. SOUTH AMERICA AUTOMATED FINGERPRINT IDENTIFICATION SYSTEM MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Component
 - 10.2.2. By Search Type
 - 10.2.3. By Application
 - 10.2.4. By Country
- 10.3. South America: Country Analysis

- 10.3.1. Brazil Automated Fingerprint Identification System 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 Component
 - 10.3.1.2.2. By Search Type
 - 10.3.1.2.3. By Application
- 10.3.2. Colombia Automated Fingerprint Identification System 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 Component
 - 10.3.2.2.2. By Search Type
 - 10.3.2.2.3. By Application
- 10.3.3. Argentina Automated Fingerprint Identification System 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 Component
 - 10.3.3.2.2. By Search Type
 - 10.3.3.2.3. By Application
- 10.3.4. Chile Automated Fingerprint Identification System 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 Component
 - 10.3.4.2.2. By Search Type
 - 10.3.4.2.3. By Application

11. MIDDLE EAST & AFRICA AUTOMATED FINGERPRINT IDENTIFICATION SYSTEM MARKET OUTLOOK

- 11.1. Market Size & Forecast
 - 11.1.1. By Value
- 11.2. Market Share & Forecast
 - 11.2.1. By Component
 - 11.2.2. By Search Type
 - 11.2.3. By Application
 - 11.2.4. By Country

11.3. Middle East & Africa: Country Analysis

11.3.1. Saudi Arabia Automated Fingerprint Identification System 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 Component

11.3.1.2.2. By Search Type

11.3.1.2.3. By Application

11.3.2. UAE Automated Fingerprint Identification System 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 Component

11.3.2.2.2. By Search Type

11.3.2.2.3. By Application

11.3.3. South Africa Automated Fingerprint Identification System 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 Component

11.3.3.2.2. By Search Type

11.3.3.2.3. By Application

11.3.4. Turkey Automated Fingerprint Identification System 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 Component

11.3.4.2.2. By Search Type

11.3.4.2.3. By Application

12. ASIA-PACIFIC AUTOMATED FINGERPRINT IDENTIFICATION SYSTEM MARKET OUTLOOK

12.1. Market Size & Forecast

12.1.1. By Value

12.2. Market Share & Forecast

12.2.1. By Component

12.2.2. By Search Type

12.2.3. By Application

12.2.4. By Country

12.3. Asia-Pacific: Country Analysis

12.3.1. China Automated Fingerprint Identification System Market Outlook

12.3.1.1. Market Size & Forecast

12.3.1.1.1. By Value

12.3.1.2. Market Share & Forecast

12.3.1.2.1. By Component

12.3.1.2.2. By Search Type

12.3.1.2.3. By Application

12.3.2. India Automated Fingerprint Identification System Market Outlook

12.3.2.1. Market Size & Forecast

12.3.2.1.1. By Value

12.3.2.2. Market Share & Forecast

12.3.2.2.1. By Component

12.3.2.2.2. By Search Type

12.3.2.2.3. By Application

12.3.3. Japan Automated Fingerprint Identification System Market Outlook

12.3.3.1. Market Size & Forecast

12.3.3.1.1. By Value

12.3.3.2. Market Share & Forecast

12.3.3.2.1. By Component

12.3.3.2.2. By Search Type

12.3.3.2.3. By Application

12.3.4. South Korea Automated Fingerprint Identification System Market Outlook

12.3.4.1. Market Size & Forecast

12.3.4.1.1. By Value

12.3.4.2. Market Share & Forecast

12.3.4.2.1. By Component

12.3.4.2.2. By Search Type

12.3.4.2.3. By Application

12.3.5. Australia Automated Fingerprint Identification System Market Outlook

12.3.5.1. Market Size & Forecast

12.3.5.1.1. By Value

12.3.5.2. Market Share & Forecast

12.3.5.2.1. By Component

12.3.5.2.2. By Search Type

12.3.5.2.3. By Application

12.3.6. Thailand Automated Fingerprint Identification System Market Outlook

12.3.6.1. Market Size & Forecast

- 12.3.6.1.1. By Value
- 12.3.6.2. Market Share & Forecast
 - 12.3.6.2.1. By Component
 - 12.3.6.2.2. By Search Type
 - 12.3.6.2.3. By Application
- 12.3.7. Malaysia Automated Fingerprint Identification System Market Outlook
 - 12.3.7.1. Market Size & Forecast
 - 12.3.7.1.1. By Value
 - 12.3.7.2. Market Share & Forecast
 - 12.3.7.2.1. By Component
 - 12.3.7.2.2. By Search Type
 - 12.3.7.2.3. By Application

13. MARKET DYNAMICS

- 13.1. Drivers
- 13.2. Challenges

14. MARKET TRENDS AND DEVELOPMENTS

15. COMPANY PROFILES

- 15.1. Thales SA
 - 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. NEC Corporation
 - 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. Synaptics Incorporated
 - 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. SecuGen Corporation
 - 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. HID Global Corporation
 - 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. Precise Biometrics AB
 - 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. Innovatrics, s.r.o.
 - 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. Suprema Inc
 - 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. Aware, Inc.
 - 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. DERMALOG Identification Systems GmbH
 - 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

16. STRATEGIC RECOMMENDATIONS

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