

Authentication and Brand Protection Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Component (Overt, Covert, Forensic, and Digital), By Technology (Security Printing & Tamper Proof Labels, Security Inks & Coatings, OVDS and Holograms, Unique Codes, Bar Codes, RFID, Authentication ICs, and Others), By Application (Consumer Electronics, Automotive, Medical, Chemical, Food & Beverage, Tobacco, and Others), By Region, By Company and By Geography, Forecast & Opportunities, 2018-2028.

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Abstracts

The Global Authentication and Brand Protection Market, valued at USD 2.5 billion in 2022, is exhibiting robust growth with a CAGR of 9.4% anticipated during the forecast period. This remarkable growth is attributed to various influential factors shaping the market landscape.

One of the primary drivers fueling the expansion of the Global Authentication and Brand Protection Market is the increasing globalization of businesses and the growing reliance of consumers on e-commerce platforms. This globalization and digitalization have given rise to a heightened risk of counterfeit products, making it imperative to implement advanced authentication and brand protection measures. Within this market, a diverse array of solutions and technologies, including anti-counterfeiting labels, holograms, digital watermarking, RFID, and blockchain, are deployed to safeguard both brands and consumers.

Moreover, regulatory bodies and industry standards have become more stringent, necessitating stricter authentication and traceability requirements across various products and sectors. Consequently, businesses are investing in advanced authentication technologies to uphold consumer trust, protect their brand reputation, and ensure compliance with these evolving regulations.

The COVID-19 pandemic has further accelerated the adoption of digital solutions and e-commerce platforms. This acceleration has, in turn, driven the demand for authentication and brand protection solutions as a response to the increased online counterfeiting activities witnessed during this period.

As a result, the Global Authentication and Brand Protection Market are poised to sustain its upward trajectory, offering lucrative opportunities for solution providers. Simultaneously, it contributes to the overall safety and integrity of global supply chains, safeguarding consumers and brands alike.

Key Market Drivers

Increasing Counterfeiting Threats

The Global Authentication and Brand Protection Market are experiencing substantial growth due to the relentless escalation of counterfeiting threats across diverse industries. As global supply chains expand and markets become more interconnected, counterfeit products have proliferated, posing significant risks to brand integrity and consumer safety. To combat this pervasive menace, businesses are increasingly recognizing the critical importance of implementing robust authentication and brand protection solutions. These solutions encompass an array of advanced technologies, including anti-counterfeiting labels, holograms, digital watermarking, and blockchain, all designed to ensure the real-time verification and traceability of products throughout the supply chain. By bolstering brand reputation and bolstering consumer trust, these solutions help organizations safeguard their bottom line and preserve brand equity. The growing awareness of the economic and safety consequences of counterfeiting is driving the rapid adoption of these advanced measures, positioning the Authentication and Brand Protection Market for sustained growth. In essence, the market is evolving to meet the pressing needs of businesses seeking to protect their intellectual property, ensure product quality, and deter counterfeiters in an increasingly complex and globalized marketplace, reaffirming the indispensable role of authentication and brand protection technologies in safeguarding brand value and consumer well-being.

Stringent Regulatory Requirements

Stringent regulatory requirements stand as a driving force behind the growth of the Global Authentication and Brand Protection Market. Across various industries, regulatory bodies have instituted increasingly rigorous standards and compliance measures to ensure product quality, safety, and authenticity. These mandates have compelled businesses to invest significantly in cutting-edge authentication and brand protection solutions. Whether it's pharmaceuticals, food and beverages, or luxury goods, stringent regulations necessitate the implementation of comprehensive anti-counterfeiting strategies. Advanced technologies such as tamper-evident packaging, unique serialization, QR codes, and holographic labels have become essential tools for meeting these regulatory demands. Moreover, the adoption of blockchain technology has gained traction, offering an immutable ledger for tracking and verifying product provenance. As regulations continue to evolve, businesses strive to remain compliant and protect their brands from counterfeit threats, thereby driving the Authentication and Brand Protection Market's expansion. This market has emerged as a critical partner in assisting companies in safeguarding their reputations, ensuring consumer safety, and complying with ever-stricter regulations while simultaneously deterring counterfeiters and bolstering supply chain transparency. In essence, stringent regulatory requirements have transformed authentication and brand protection solutions from optional assets to indispensable components of a company's risk mitigation and compliance strategy, fostering an environment where authenticity and consumer trust prevail.

Digital Transformation and E-commerce Expansion

The ongoing process of digital transformation and the rapid expansion of e-commerce platforms have become instrumental drivers of the Global Authentication and Brand Protection Market. In an era where consumers increasingly rely on online shopping, the risks associated with encountering counterfeit products have surged, threatening brand reputation and consumer trust. To mitigate this escalating threat, businesses are embracing digital solutions and innovative authentication methods. QR codes, mobile apps, and online authentication portals empower consumers to verify product authenticity easily. E-commerce platforms are also proactively partnering with authentication service providers to bolster their brand protection efforts, instilling confidence in online shoppers. This convergence of technology and e-commerce is driving heightened demand for cutting-edge authentication solutions. As a result, the Authentication and Brand Protection Market is witnessing sustained expansion, as organizations recognize the pivotal role these solutions play in protecting their brands,

fostering consumer loyalty, and ensuring the integrity of their products in a digital-first, global marketplace.

Globalization of Trade

The globalization of trade serves as a powerful catalyst propelling the Global Authentication and Brand Protection Market to new heights. As businesses expand their operations across international borders, the imperative to safeguard their brands and products from counterfeit threats becomes increasingly pronounced. The vast and interconnected nature of global trade networks exposes companies to the risk of unauthorized replication and distribution of their goods, potentially tarnishing their brand reputation and eroding consumer trust. In response to this pressing concern, organizations are turning to authentication and brand protection solutions that offer global coverage and scalability. These solutions provide a unified, standardized approach to verifying product authenticity and tracking the movement of goods across diverse markets. By ensuring consistent brand protection and anti-counterfeiting measures on a global scale, businesses can maintain their brand integrity and reassure consumers, regardless of their geographic location. The globalization of trade thus underscores the vital role played by authentication and brand protection technologies in enabling companies to navigate the complexities of the international marketplace while fortifying their brands and preserving consumer confidence, making them indispensable tools in the arsenal of any global enterprise.

Key Market Challenges

Technological Integration

The Global Authentication and Brand Protection Market faces a significant challenge in integrating authentication technologies with existing business processes seamlessly. While the demand for robust authentication solutions is increasing, businesses often encounter difficulties in seamlessly incorporating these technologies into their operations. This challenge involves adapting authentication methods to fit diverse industries and systems, ensuring minimal disruption to workflow, and maintaining user-friendly interfaces. Overcoming this challenge necessitates the development of versatile and easily integrable authentication solutions, collaboration between solution providers and businesses, and thorough implementation strategies that prioritize a smooth transition to enhanced security measures.

Regulatory Compliance and Standards

Navigating the complex regulatory landscape and adhering to industry-specific standards poses a key challenge within the Global Authentication and Brand Protection Market. Various sectors, from pharmaceuticals to consumer electronics, are subject to stringent regulations regarding product labeling, traceability, and authentication. Meeting these compliance requirements while implementing effective brand protection measures can be intricate and time-consuming. Moreover, industry standards continue to evolve, adding another layer of complexity. To address this challenge, businesses require comprehensive solutions that not only meet current regulatory requirements but also have the flexibility to adapt to changing standards. Collaboration between solution providers, industry associations, and regulatory bodies is vital to ensure the development of authentication and brand protection solutions that seamlessly align with compliance mandates.

User Experience and Adoption

The challenge of user experience and adoption is a critical consideration within the Global Authentication and Brand Protection Market. While advanced authentication technologies enhance security, they can also introduce friction into user interactions. Balancing robust security with a seamless user experience is a challenge, as cumbersome authentication processes can lead to user frustration and resistance to adoption. To overcome this challenge, businesses must prioritize the development of user-friendly authentication solutions that offer a balance between security and convenience. This involves leveraging biometrics, multi-factor authentication, and behavioral analytics to create a frictionless yet secure authentication experience that encourages widespread adoption.

Cost and Scalability

The challenge of cost and scalability is a significant hurdle within the Authentication and Brand Protection Market. Implementing authentication and brand protection measures, especially across large product portfolios or expansive supply chains, can incur substantial costs. Small and medium-sized enterprises (SMEs) may find it particularly challenging to invest in comprehensive solutions. To address this challenge, solution providers must offer scalable options that cater to businesses of all sizes. Innovative pricing models, cloud-based solutions, and modular offerings can help mitigate cost concerns and make authentication and brand protection accessible to a broader range of businesses. Striking the right balance between affordability and scalability is essential to drive market adoption and address the diverse needs of industries seeking effective

protection against counterfeiting and brand misuse.

Key Market Trends

Digital Transformation and E-commerce Integration

A transformative trend shaping the Global Authentication and Brand Protection Market is the increasing integration of authentication solutions with digital transformation and e-commerce platforms. As businesses worldwide embrace digitalization, the need for secure online transactions and the prevention of counterfeit products in e-commerce have surged. Authentication technologies, including QR codes, blockchain-based verification, and mobile apps, are being seamlessly integrated into digital storefronts and supply chain systems to empower consumers to verify product authenticity easily. This trend is driven by the necessity to build consumer trust in online marketplaces and ensure product integrity throughout the digital supply chain. The expanding role of authentication in enhancing the online shopping experience and protecting brands from digital counterfeit threats underscores its growing significance in the era of digital transformation and e-commerce dominance.

IoT Integration for Product Traceability

The integration of Internet of Things (IoT) technology for product traceability is a significant trend influencing the Global Authentication and Brand Protection Market. Across industries such as pharmaceuticals, electronics, and luxury goods, the demand for real-time tracking and traceability has risen. Authentication solutions are increasingly incorporating IoT devices, sensors, and data analytics to provide consumers with detailed product information and provenance. This trend is driven by the need for transparency, supply chain optimization, and consumer empowerment, where authentication and brand protection measures offer visibility into a product's journey from manufacturing to delivery. As the IoT ecosystem continues to expand, and consumers seek greater visibility and trust in the products they purchase, the convergence of authentication solutions with IoT integration is expected to redefine how brands protect their reputation and enhance consumer confidence.

Regulatory Compliance and Sustainability

The trend of regulatory compliance and sustainability is playing a vital role in shaping the Global Authentication and Brand Protection Market. Governments and industry regulatory bodies are imposing stricter requirements for product labeling, traceability,

and authenticity. Authentication solutions are evolving to not only meet these regulatory mandates but also address sustainability concerns. This trend is driven by the growing emphasis on ethical sourcing, environmental responsibility, and the reduction of counterfeit goods' environmental impact. Authentication technologies that incorporate eco-friendly materials, sustainable packaging, and carbon footprint tracking are gaining prominence, aligning with the values of socially conscious consumers and responsible businesses. As regulatory standards continue to evolve, and sustainability becomes a key differentiator for brands, authentication and brand protection measures are adapting to meet these dual demands, driving innovation in the market.

Consumer Engagement and Personalization

The trend of consumer engagement and personalization is reshaping the Global Authentication and Brand Protection Market by enhancing the interaction between brands and consumers. Authentication solutions are evolving beyond security measures to create personalized and engaging experiences for consumers. This trend is driven by the desire to build brand loyalty, offer exclusive content, and establish a direct connection with customers through authentication-enabled platforms and apps. Personalized product information, recommendations, and loyalty rewards are becoming integral components of authentication solutions, enhancing the overall consumer experience while strengthening brand-customer relationships. As businesses recognize the value of direct consumer engagement and data-driven personalization, authentication and brand protection solutions are evolving to provide a holistic approach to brand-consumer interaction, revolutionizing the way brands connect with their audience in the digital age.

Segmental Insights

Application Insights

The Consumer Electronics segment emerged as the dominant type segment in the Global Authentication and Brand Protection Market, and it is expected to maintain its supremacy throughout the forecast period. The proliferation of counterfeit consumer electronic products, including smartphones, tablets, and wearable devices, has posed a significant threat to brand integrity and consumer trust. As a result, businesses in the consumer electronics sector have been at the forefront of adopting robust authentication and brand protection measures. They have implemented advanced technologies such as QR codes, holographic labels, and digital watermarking to ensure the authenticity of their products. Additionally, the integration of authentication solutions with consumer-

facing mobile apps has empowered customers to verify product authenticity easily, fostering trust and loyalty. The consumer electronics industry's commitment to combating counterfeiting and protecting brand reputation is expected to drive sustained demand for authentication and brand protection solutions. Furthermore, as consumer electronics continue to evolve with cutting-edge features and innovations, the need for authentication technologies to safeguard these advancements will remain paramount. Therefore, the Consumer Electronics segment is anticipated to maintain its dominant position in the Global Authentication and Brand Protection Market, benefiting from the industry's ongoing growth and its dedication to ensuring genuine products reach consumers while mitigating the risks associated with counterfeit goods.

Technology Insights

The Technology segment that dominated the Global Authentication and Brand Protection Market and is expected to maintain its supremacy throughout the forecast period is 'Security Printing & Tamper-Proof Labels.' Security printing and tamper-proof labels have emerged as the cornerstone of brand protection strategies across various industries. These technologies provide a multifaceted approach to authentication and brand protection, encompassing features such as holograms, color-shifting inks, microprinting, and overt/covert security elements. These elements make it extremely challenging for counterfeiters to replicate or tamper with products, ensuring both authenticity and brand integrity. The dominance of Security Printing & Tamper-Proof Labels is attributed to their versatility and effectiveness in deterring counterfeiting and product tampering. They are widely used in sectors such as pharmaceuticals, cosmetics, food and beverage, and luxury goods, where counterfeiting poses significant risks to public health, brand reputation, and consumer trust. As counterfeiters become more sophisticated, businesses are increasingly turning to security printing and tamper-proof labels to secure their products. Additionally, these technologies are often integrated with other authentication measures such as QR codes, serial numbers, and RFID tags to create layered security solutions, further enhancing their appeal. Given their proven track record and adaptability to evolving counterfeiting tactics, Security Printing & Tamper-Proof Labels are poised to maintain their dominance in the Global Authentication and Brand Protection Market in the coming years.

Component Insights

The Component segment that dominated the Global Authentication and Brand Protection Market and is expected to maintain its supremacy throughout the forecast period is the 'Digital' component. Digital authentication and brand protection solutions

have witnessed a remarkable surge in adoption, driven by the rapid digitalization of businesses and the increasing prevalence of online commerce. Digital components encompass a wide range of technologies, including QR codes, mobile apps, blockchain-based verification, and online authentication portals, which empower consumers to verify product authenticity easily using their smartphones or other digital devices. The dominance of the Digital component is attributed to its versatility, accessibility, and effectiveness in combating counterfeit products in the digital age. With consumers increasingly relying on e-commerce platforms, the risk of encountering counterfeit goods online has grown significantly. Businesses recognize the need to instill trust in online shoppers and protect their brands in the digital realm. Digital authentication solutions offer seamless integration with e-commerce platforms, providing consumers with real-time product verification and access to detailed product information. This not only enhances brand protection but also fosters consumer confidence in online purchases. Moreover, digital components facilitate supply chain transparency, allowing businesses to track and trace products from production to delivery, further bolstering brand protection efforts. As e-commerce continues to expand, and consumers seek reliable means to verify product authenticity online, the Digital component is poised to maintain its dominant position in the Global Authentication and Brand Protection Market, offering businesses a vital tool in safeguarding their brands and ensuring consumer trust in the digital era.

Regional Insights

The region that dominated the Global Authentication and Brand Protection Market and is anticipated to maintain its dominance throughout the forecast period is North America. North America, comprising the United States and Canada, held a substantial share of the market in 2022 due to several key factors. These include a highly developed economy, a strong emphasis on intellectual property protection, stringent regulatory frameworks, and a significant presence of multinational corporations across various industries. The United States, in particular, stands as a major driver of market growth in North America. It houses numerous tech giants, pharmaceutical companies, and consumer goods manufacturers that prioritize brand protection to safeguard their reputation and consumer trust. Additionally, the region has witnessed an increasing awareness of the economic and safety implications of counterfeiting, leading to a heightened demand for authentication and brand protection solutions. Furthermore, the North American region benefits from a robust ecosystem of technology providers, authentication solution developers, and regulatory bodies that collaborate to create comprehensive and innovative brand protection strategies. This collaborative approach fosters the continuous evolution of authentication technologies and their integration into

various industries.

Key Market Players

Authentix Inc

SICPA Holding SA

Avery Dennison Corporation

Applied DNA Sciences Inc

TruTag Technologies Inc

De La Rue plc

3M Company

Leonhard Kurz Stiftung & Co. KG

CCL Industries Inc

AlpVision SA

Report Scope:

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

Global Authentication and Brand Protection Market, By Component:

Overt

Covert

Forensic

Digital

Global Authentication and Brand Protection Market, By Technology:

Security Printing & Tamper Proof Labels

Security Inks & Coatings

OVDs and Holograms

Unique Codes

Bar Codes

RFID

Authentication ICs

Others

Global Authentication and Brand Protection Market, By Application:

Consumer Electronics

Automotive

Medical

Chemical

Food & Beverage

Tobacco

Others

Global Authentication and Brand Protection 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 Authentication and Brand Protection Market.

Available Customizations:

Global Authentication and Brand Protection 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 AUTHENTICATION AND BRAND PROTECTION MARKET

5. VOICE OF CUSTOMER

6. GLOBAL AUTHENTICATION AND BRAND PROTECTION MARKET OVERVIEW

7. GLOBAL AUTHENTICATION AND BRAND PROTECTION MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Component (Overt, Covert, Forensic, and Digital)
 - 7.2.2. By Technology (Security Printing & Tamper Proof Labels, Security Inks & Coatings, OVDS and Holograms, Unique Codes, Bar Codes, RFID, Authentication ICs, and Others)
 - 7.2.3. By Application (Consumer Electronics, Automotive, Medical, Chemical, Food & Beverage, Tobacco, and Others)

- 7.2.4. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)
- 7.3. By Company (2022)
- 7.4. Market Map

8. NORTH AMERICA AUTHENTICATION AND BRAND PROTECTION 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 Technology

8.2.3. By Application

8.2.4. By Country

8.2.4.1. United States Authentication and Brand Protection Market Outlook

8.2.4.1.1. Market Size & Forecast

8.2.4.1.1.1. By Value

8.2.4.1.2. Market Share & Forecast

8.2.4.1.2.1. By Component

8.2.4.1.2.2. By Technology

8.2.4.1.2.3. By Application

8.2.4.2. Canada Authentication and Brand Protection Market Outlook

8.2.4.2.1. Market Size & Forecast

8.2.4.2.1.1. By Value

8.2.4.2.2. Market Share & Forecast

8.2.4.2.2.1. By Component

8.2.4.2.2.2. By Technology

8.2.4.2.2.3. By Application

8.2.4.3. Mexico Authentication and Brand Protection Market Outlook

8.2.4.3.1. Market Size & Forecast

8.2.4.3.1.1. By Value

8.2.4.3.2. Market Share & Forecast

8.2.4.3.2.1. By Component

8.2.4.3.2.2. By Technology

8.2.4.3.2.3. By Application

9. EUROPE AUTHENTICATION AND BRAND PROTECTION 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 Technology

9.2.3. By Application

9.2.4. By Country

9.2.4.1. Germany Authentication and Brand Protection Market Outlook

9.2.4.1.1. Market Size & Forecast

9.2.4.1.1.1. By Value

9.2.4.1.2. Market Share & Forecast

9.2.4.1.2.1. By Component

9.2.4.1.2.2. By Technology

9.2.4.1.2.3. By Application

9.2.4.2. France Authentication and Brand Protection Market Outlook

9.2.4.2.1. Market Size & Forecast

9.2.4.2.1.1. By Value

9.2.4.2.2. Market Share & Forecast

9.2.4.2.2.1. By Component

9.2.4.2.2.2. By Technology

9.2.4.2.2.3. By Application

9.2.4.3. United Kingdom Authentication and Brand Protection Market Outlook

9.2.4.3.1. Market Size & Forecast

9.2.4.3.1.1. By Value

9.2.4.3.2. Market Share & Forecast

9.2.4.3.2.1. By Component

9.2.4.3.2.2. By Technology

9.2.4.3.2.3. By Application

9.2.4.4. Italy Authentication and Brand Protection Market Outlook

9.2.4.4.1. Market Size & Forecast

9.2.4.4.1.1. By Value

9.2.4.4.2. Market Share & Forecast

9.2.4.4.2.1. By Component

9.2.4.4.2.2. By Technology

9.2.4.4.2.3. By Application

9.2.4.5. Spain Authentication and Brand Protection Market Outlook

9.2.4.5.1. Market Size & Forecast

9.2.4.5.1.1. By Value

9.2.4.5.2. Market Share & Forecast

- 9.2.4.5.2.1. By Component
- 9.2.4.5.2.2. By Technology
- 9.2.4.5.2.3. By Application

10. SOUTH AMERICA AUTHENTICATION AND BRAND PROTECTION 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 Technology

10.2.3. By Application

10.2.4. By Country

10.2.4.1. Brazil Authentication and Brand Protection Market Outlook

10.2.4.1.1. Market Size & Forecast

10.2.4.1.1.1. By Value

10.2.4.1.2. Market Share & Forecast

10.2.4.1.2.1. By Component

10.2.4.1.2.2. By Technology

10.2.4.1.2.3. By Application

10.2.4.2. Colombia Authentication and Brand Protection Market Outlook

10.2.4.2.1. Market Size & Forecast

10.2.4.2.1.1. By Value

10.2.4.2.2. Market Share & Forecast

10.2.4.2.2.1. By Component

10.2.4.2.2.2. By Technology

10.2.4.2.2.3. By Application

10.2.4.3. Argentina Authentication and Brand Protection Market Outlook

10.2.4.3.1. Market Size & Forecast

10.2.4.3.1.1. By Value

10.2.4.3.2. Market Share & Forecast

10.2.4.3.2.1. By Component

10.2.4.3.2.2. By Technology

10.2.4.3.2.3. By Application

11. MIDDLE EAST & AFRICA AUTHENTICATION AND BRAND PROTECTION 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 Technology
 - 11.2.3. By Application
 - 11.2.4. By Country
 - 11.2.4.1. Saudi Arabia Authentication and Brand Protection Market Outlook
 - 11.2.4.1.1. Market Size & Forecast
 - 11.2.4.1.1.1. By Value
 - 11.2.4.1.2. Market Share & Forecast
 - 11.2.4.1.2.1. By Component
 - 11.2.4.1.2.2. By Technology
 - 11.2.4.1.2.3. By Application
 - 11.2.4.2. UAE Authentication and Brand Protection Market Outlook
 - 11.2.4.2.1. Market Size & Forecast
 - 11.2.4.2.1.1. By Value
 - 11.2.4.2.2. Market Share & Forecast
 - 11.2.4.2.2.1. By Component
 - 11.2.4.2.2.2. By Technology
 - 11.2.4.2.2.3. By Application
 - 11.2.4.3. South Africa Authentication and Brand Protection Market Outlook
 - 11.2.4.3.1. Market Size & Forecast
 - 11.2.4.3.1.1. By Value
 - 11.2.4.3.2. Market Share & Forecast
 - 11.2.4.3.2.1. By Component
 - 11.2.4.3.2.2. By Technology
 - 11.2.4.3.2.3. By Application

12. ASIA PACIFIC AUTHENTICATION AND BRAND PROTECTION MARKET OUTLOOK

- 12.1. Market Size & Forecast
 - 12.1.1. By Component
 - 12.1.2. By Technology
 - 12.1.3. By Application
 - 12.1.4. By Country
 - 12.1.4.1. China Authentication and Brand Protection Market Outlook
 - 12.1.4.1.1. Market Size & Forecast

- 12.1.4.1.1.1. By Value
- 12.1.4.1.2. Market Share & Forecast
 - 12.1.4.1.2.1. By Component
 - 12.1.4.1.2.2. By Technology
 - 12.1.4.1.2.3. By Application
- 12.1.4.2. India Authentication and Brand Protection Market Outlook
 - 12.1.4.2.1. Market Size & Forecast
 - 12.1.4.2.1.1. By Value
 - 12.1.4.2.2. Market Share & Forecast
 - 12.1.4.2.2.1. By Component
 - 12.1.4.2.2.2. By Technology
 - 12.1.4.2.2.3. By Application
- 12.1.4.3. Japan Authentication and Brand Protection Market Outlook
 - 12.1.4.3.1. Market Size & Forecast
 - 12.1.4.3.1.1. By Value
 - 12.1.4.3.2. Market Share & Forecast
 - 12.1.4.3.2.1. By Component
 - 12.1.4.3.2.2. By Technology
 - 12.1.4.3.2.3. By Application
- 12.1.4.4. South Korea Authentication and Brand Protection Market Outlook
 - 12.1.4.4.1. Market Size & Forecast
 - 12.1.4.4.1.1. By Value
 - 12.1.4.4.2. Market Share & Forecast
 - 12.1.4.4.2.1. By Component
 - 12.1.4.4.2.2. By Technology
 - 12.1.4.4.2.3. By Application
- 12.1.4.5. Australia Authentication and Brand Protection Market Outlook
 - 12.1.4.5.1. Market Size & Forecast
 - 12.1.4.5.1.1. By Value
 - 12.1.4.5.2. Market Share & Forecast
 - 12.1.4.5.2.1. By Component
 - 12.1.4.5.2.2. By Technology
 - 12.1.4.5.2.3. By Application

13. MARKET DYNAMICS

13.1. Drivers

13.2. Challenges

14. MARKET TRENDS AND DEVELOPMENTS

15. COMPANY PROFILES

15.1. Authentix Inc

- 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. SICPA Holding SA

- 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. Avery Dennison 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. Applied DNA Sciences Inc

- 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. TruTag Technologies Inc

- 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. De La Rue plc

- 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. 3M Company
 - 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. Leonhard Kurz Stiftung & Co. KG
 - 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. CCL Industries Inc
 - 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. AlpVision SA
 - 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

16. STRATEGIC RECOMMENDATIONS

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