

Automated Border Control Market ? Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Component (Hardware, Software, Service), By Solution (ABC e-gate v/s ABC kiosk), By Application (Airport, Land port, Seaport), By Region & Competition, 2021-2031F

<https://marketpublishers.com/r/A07368B527FEEN.html>

Date: January 2026

Pages: 182

Price: US\$ 4,500.00 (Single User License)

ID: A07368B527FEEN

Abstracts

The Global Automated Border Control Market is projected to expand from USD 2.85 Billion in 2025 to USD 7.28 Billion by 2031, reflecting a CAGR of 16.92%. These systems, comprising technologies like electronic gates and self-service kiosks, utilize biometric verification to automate identity validation at border crossings. The primary impetus for these deployments is the urgent necessity to bolster operational efficiency and security protocols in the face of increasing global passenger volumes. According to the International Air Transport Association, 46% of travelers utilized biometric identification at airport checkpoints in 2024, reporting high levels of satisfaction.

Despite this growth trajectory, the market encounters significant obstacles related to data privacy and regulatory compliance. The collection and storage of sensitive biometric information generate substantial concerns among passengers and regulators regarding potential misuse or cybersecurity vulnerabilities. Consequently, stringent data protection laws and public reluctance to share personal information act as persistent challenges that may slow the widespread global implementation of these automated systems.

Market Driver

The escalation in international passenger traffic serves as a major catalyst for the

adoption of automated border control solutions. As traveler numbers recover, traditional manual processing methods struggle to handle the throughput, leading to bottlenecks and extended wait times that force authorities to implement automated electronic gates and kiosks to streamline entry and exit procedures without sacrificing security. Data from Airports Council International World in their 'Annual World Airport Traffic Dataset' from July 2024 indicates that international passenger traffic grew by 36.5% in 2023, necessitating scalable technological interventions that allow authorities to process larger groups efficiently while redirecting human resources to high-risk security tasks.

Further accelerating market expansion is the rapid integration of advanced biometric and AI technologies, which facilitate seamless, contactless passenger processing. Governments and airport operators are heavily investing in facial recognition and document verification to establish friction-free corridors that improve the user experience and verify identities with high precision. SITA's '2023 Air Transport IT Insights' report from February 2024 notes that 70% of airlines plan to have biometric ID management solutions in place by 2026. This shift is underscored by the Transportation Security Administration's observation in 2024 of a record-breaking daily screening volume of over 3 million individuals, highlighting the critical need for automation to manage throughput effectively.

Market Challenge

Data privacy and regulatory compliance constitute formidable barriers to the growth of the Global Automated Border Control Market. As border agencies adopt biometric technologies, they face strict legal frameworks governing the collection, storage, and cross-border sharing of sensitive personal identity data. These regulations demand robust and often costly cybersecurity infrastructures to prevent breaches, thereby increasing capital expenditures and causing airports to delay implementation to avoid severe penalties for non-compliance.

Additionally, public skepticism significantly limits the adoption rate of these automated solutions. Travelers frequently fear that their immutable biometric traits could be mishandled or targeted by cybercriminals, resulting in identity theft that is difficult to resolve. This hesitation leads to lower utilization rates of installed infrastructure, reducing the return on investment for border authorities. In 2024, the International Air Transport Association reported that 50% of travelers expressed concerns regarding data protection in biometric usage, forcing operators to maintain redundant manual processing lines and effectively neutralizing the efficiency gains that drive market

growth.

Market Trends

The rise of mobile-based digital travel credentials is fundamentally transforming identity management by moving verification from physical checkpoints to a remote, passenger-controlled process. This trend allows travelers to generate a secure digital token on their smartphones before arrival, differing from traditional biometric gates that depend on centralized database checks at the point of passage. This shift is supported by increasing passenger readiness to use mobile-centric solutions for data control; according to SITA's '2024 Passenger IT Insights' from June 2024, 75% of passengers are comfortable storing their digital identity on their mobile phones to speed up processing, prompting vendors to develop interoperable apps that integrate with border infrastructure.

Concurrently, the application of automated solutions is expanding beyond aviation to include land and maritime borders. Regulatory mandates are compelling rail terminal and sea port operators to deploy ruggedized e-gates capable of handling complex vehicular and pedestrian flows in variable environmental conditions, which differ significantly from controlled airport settings. For instance, Eurostar announced in a May 2024 press release an allocation of ?10 million to install new biometric kiosks and automated gates at London St Pancras to meet compliance standards, confirming that automation is becoming a standard requirement across all modes of international transport.

Key Market Players

Thales Group

IDEMIA

NEC Corporation

Vision-Box

SITA S.A.

Secunet Security Networks AG

Indra Sistemas S.A.

Gunnebo AB

HID Global Corporation

Atos SE

Report Scope

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

Automated Border Control Market, By Component

Hardware

Software

Service

Automated Border Control Market, By Solution

ABC e-gate v/s ABC kiosk

Automated Border Control Market, By Application

Airport

Land port

Seaport

Automated Border Control Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Automated Border Control Market.

Available Customizations:

Global Automated Border Control 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).

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