

Application Programming Interface (API) Security Market - Global Industry Size, Share, Trends, Opportunity, and Forecast. By Offering (Platforms & Solutions and Services), By Deployment Mode (On-Premises, Hybrid, and Cloud), By Organization Size (SMEs and Large Enterprises), By Region & Competition, 2021-2031F

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Abstracts

The Global Application Programming Interface (API) Security Market is projected to expand from USD 1167.37 Million in 2025 to USD 5287.64 Million by 2031, achieving a CAGR of 28.63%. This market comprises a specialized suite of services and solutions engineered to safeguard the confidentiality and integrity of APIs by blocking unauthorized access and mitigating vulnerabilities. The sector's growth is primarily fueled by extensive digital transformation initiatives across industries and the widespread uptake of cloud-native architectures, both of which require robust systems to protect inter-application connectivity. Additionally, the shift toward microservices architectures and the necessity for rigorous regulatory compliance regarding data privacy serve as foundational elements sustaining the market's expansion.

A major hurdle that could hinder market growth is the intrinsic difficulty of securing and managing the exploding volume of API connections, a phenomenon often causing vulnerabilities known as API sprawl. This widening attack surface represents a continuous concern for enterprises as they fight to retain visibility over their digital assets. According to the Cloud Security Alliance, insecure interfaces and APIs were identified as the third most critical threat to cloud computing environments in 2024. This statistic emphasizes the severity of the risk and demonstrates the challenges organizations encounter in adequately defending their API ecosystems against

advancing cyber threats.

Market Driver

The escalating sophistication and frequency of API-specific cyberattacks serve as a major catalyst driving the Global Application Programming Interface (API) Security Market. Because APIs increasingly function as the backbone of digital ecosystems, they have become the chosen entry point for threat actors attempting to evade conventional perimeter defenses. The volume of malicious activity confirms this intensified threat landscape; the 'State of Apps and API Security 2025' report by Akamai in April 2025 recorded 150 billion API attacks globally between January 2023 and December 2024. Furthermore, attackers are leveraging advanced technologies to heighten risks, as evidenced by Wallarm's '2025 API ThreatStats Report' from January 2025, which noted a 1,205% surge in AI-driven API vulnerabilities over the previous year.

Market demand is further accelerated by the growing complexity and sprawl of unmanaged API inventories, which leave enterprises struggling to oversee their expanding digital footprints. The swift shift to cloud-native architectures has resulted in a proliferation of 'shadow' APIs?undocumented endpoints that generate substantial blind spots where vulnerabilities can exist undetected. According to the 'H2 2025 State of API Security Report' by Salt Security in October 2025, merely 19% of organizations express strong confidence in the accuracy of their API inventories, highlighting a severe visibility gap. As companies recognize that traditional tools fail to protect unseen assets, the necessity of adopting specialized solutions for continuous inventory management and discovery becomes a vital driver of growth.

Market Challenge

The inherent complexity involved in securing and managing the skyrocketing number of API connections presents a substantial challenge that directly hampers the growth of the Global API Security Market. This issue, known as API sprawl, results in a fragmented digital landscape where organizations lose sight of their interface assets. When enterprises lack the ability to accurately monitor or inventory their connections, they are often reluctant to invest in high-end security suites because they cannot establish the required baseline governance. This operational opacity effectively stalls the sales process, as potential buyers feel compelled to resolve their asset management difficulties before they can justify the expense or effectively deploy advanced protection solutions.

This difficulty is compounded by a shortage of the technical resources necessary to manage these intricate ecosystems. In 2024, ISC2 reported that 67% of cybersecurity professionals indicated their organizations were functioning with a significant deficit of security staff. This workforce shortage limits the market's growth potential, as companies lack the specialized human capital required to maintain and configure comprehensive API security frameworks, resulting in reduced investment and delayed adoption within the sector.

Market Trends

The market is being reshaped by the rise of specialized security solutions for Generative AI and LLM APIs, as organizations aggressively incorporate large language models into their digital environments. This trend is defined by the urgent requirement to secure unique attack surfaces introduced by AI-driven applications, including model theft and prompt injection, which conventional defenses often fail to mitigate. The push for these specific controls stems from the perceived severity of the threat among security leaders witnessing the rapid rollout of these technologies without sufficient safeguards. According to Traceable AI's '2025 Global State of API Security Report' from October 2024, 65% of organizations identify generative AI applications as posing a serious to extreme risk to their API environments, prompting the creation of dedicated defense mechanisms for LLM integrations.

Simultaneously, the consolidation of point solutions into holistic API protection platforms is gathering speed as enterprises aim to remove operational silos that lead to coverage gaps. Organizations are transitioning away from fragmented security models where API protection is handled disparately across various teams, a practice that results in increased vulnerability and inconsistent policy enforcement. This move toward unified platforms enables businesses to bridge the gap between API management and application security teams while centralizing governance. The need for this convergence is underscored by industry data showing deep organizational divides; F5's '2024 State of Application Strategy Report: API Security' from November 2024 reveals that 53% of organizations handle API security under application security, whereas 31% rely on API management platforms, a fragmented strategy that holistic solutions seek to rectify.

Key Market Players

IBM Corporation

Akamai Technologies

Imperva

Barracuda Networks

Google LLC

Microsoft Corporation

Palo Alto Networks

Check Point Software Technologies

Fortinet, Inc.

Broadcom Inc.

Report Scope

In this report, the Global Application Programming Interface (API) Security Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Application Programming Interface (API) Security Market, By Offering

Platforms & Solutions

Services

Application Programming Interface (API) Security Market, By Deployment Mode

On-Premises

Hybrid

Cloud

Application Programming Interface (API) Security Market, By Organization Size

SMEs

Large Enterprises

Application Programming Interface (API) Security 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 Application Programming Interface (API) Security Market.

Available Customizations:

Global Application Programming Interface (API) Security 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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