

Security Testing Market Outlook 2025-2034: Market Share, and Growth Analysis By Type(Application Security Testing, Network Security Testing, Device Security testing, Social Engineering), By Deployment Mode(On-Premises, Cloud), By Organization Size, By Verticals

<https://marketpublishers.com/r/SA2E5ED6B9E4EN.html>

Date: October 2025

Pages: 160

Price: US\$ 3,950.00 (Single User License)

ID: SA2E5ED6B9E4EN

Abstracts

The Security Testing Market is valued at USD 12.5 billion in 2025 and is projected to grow at a CAGR of 18.8% to reach USD 59.1 billion by 2034. The Security Testing market is becoming an essential part of modern cybersecurity strategies, as businesses increasingly face sophisticated cyber threats. Security testing involves evaluating and identifying vulnerabilities within software, applications, networks, and IT infrastructure to ensure that they are secure from potential threats, such as hacking, data breaches, and malware. It helps organizations proactively uncover and fix weaknesses before they can be exploited by cybercriminals. With the rapid growth of digital transformation, the expansion of the Internet of Things (IoT), and the increasing use of cloud-based services, organizations must regularly perform security testing to safeguard their digital assets and ensure compliance with industry regulations. Security testing services include penetration testing, vulnerability assessments, risk analysis, and ethical hacking, among others. These services are crucial for businesses that need to protect sensitive data and maintain customer trust. The growing complexity of cyberattacks, coupled with evolving regulatory requirements, is driving the demand for more robust security testing solutions. As threats become more advanced, security testing must be continuously adapted to identify new vulnerabilities and address emerging risks in real-time. The Security Testing market saw notable advancements driven by increasing concerns about cybersecurity and regulatory compliance. The demand for automated security testing tools surged, as organizations sought faster and more efficient ways to

identify vulnerabilities across complex IT environments. Automation in security testing allowed businesses to run continuous tests, particularly for applications and web platforms, improving the speed and accuracy of threat detection. Artificial intelligence (AI) and machine learning (ML) also began playing a significant role in security testing solutions, providing deeper insights and predictive capabilities for detecting potential risks. Cloud-based security testing solutions became more widely adopted, offering scalability and flexibility for businesses operating in hybrid and multi-cloud environments. Additionally, the use of DevSecOps practices gained momentum, integrating security testing early in the software development lifecycle to reduce vulnerabilities before they reached production stages. As cyberattacks continued to grow in sophistication, the demand for more advanced testing techniques, such as red teaming and threat hunting, also increased. This trend was fueled by the need for real-time monitoring and rapid incident response capabilities to safeguard businesses against evolving cyber threats. The Security Testing market is expected to continue growing as organizations face increasingly complex cybersecurity challenges. The rise of 5G networks, the increasing adoption of IoT devices, and the expansion of artificial intelligence in security operations will all contribute to the evolution of security testing solutions. The introduction of new regulations, such as the Digital Operational Resilience Act (DORA) and updates to existing frameworks like GDPR, will push businesses to adopt more comprehensive security testing methodologies to ensure compliance. As cyber threats become more targeted and advanced, security testing tools will need to incorporate more automation, AI, and behavioral analysis to detect anomalies in real-time. The growing complexity of digital environments, including multi-cloud, hybrid, and on-premises infrastructures, will require security testing solutions that can seamlessly integrate with these environments and provide continuous protection across all endpoints. Additionally, as organizations increasingly embrace the concept of zero-trust security models, security testing will need to adapt to verify and authenticate every user and device accessing company resources. The ongoing digital transformation and increasing cyber risks will continue to drive the demand for robust and adaptive security testing solutions in the coming years.

Key Insights Security Testing Market

The growing use of AI and machine learning in security testing to provide predictive capabilities and improve detection accuracy.

Automation of security testing to increase efficiency, speed, and coverage of vulnerability assessments.

Integration of security testing early in the software development lifecycle through DevSecOps practices.

Expansion of cloud-based security testing solutions for scalability and flexibility in hybrid and multi-cloud environments.

Adoption of more advanced techniques like red teaming and threat hunting to simulate real-world attacks and uncover hidden vulnerabilities.

The rising frequency and sophistication of cyberattacks are pushing businesses to invest in more comprehensive and proactive security testing solutions.

Increased regulatory pressure and the need for compliance with standards like GDPR, CCPA, and DORA are driving demand for robust security testing frameworks.

The growing complexity of IT environments, including cloud, hybrid, and IoT-based infrastructures, is creating a need for continuous and adaptive security testing.

The increasing adoption of DevSecOps practices is encouraging businesses to integrate security testing early in the software development lifecycle to address vulnerabilities before they become critical.

Ensuring that security testing tools can effectively integrate with diverse, constantly evolving IT environments, including hybrid, multi-cloud, and IoT-based systems, remains a significant challenge.

Security Testing Market Segmentation

By Type

Application Security Testing

Network Security Testing

Device Security testing

Social Engineering

By Deployment Mode

On-Premises

Cloud

By Organization Size

SMEs

Large Enterprises

By Verticals

BFSI

Healthcare

IT

Telecom

Retail and eCommerce

Education

Other Verticals

Key Companies Analysed

AT&T Inc.

Cigniti Technologies Limited

International Business Machines Corporation

McAfee Corp

Micro Focus

Rapid7

Cisco Systems Inc.

SecureWorks Inc.

F-Secure Corporation

Data Theorem Inc.

Hewlett Packard Enterprise Development LP

NTT Security AppSec Solutions Inc.

Synopsys Inc.

Veracode

Now Secure

Parasoft

ScienceSoft

WhiteHat Security

Kryptowire LLC

Accenture PLC

Aon plc

AppSec Labs

Bishop Fox

Capgemini SE

Check Point Software Technologies Ltd.

Coalfire Systems Inc.

Cybercom Group AB

Deloitte Touche Tohmatsu Limited

Ernst & Young Global Limited

FireEye Inc.

Fortinet Inc.

HCL Technologies Limited

Infosys Limited

Security Testing Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Security Testing Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Security Testing market data and outlook to 2034

United States

Canada

Mexico

Europe — Security Testing market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Security Testing market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Security Testing market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Security Testing market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Security Testing value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Security Testing industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Security Testing Market Report

Global Security Testing market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Security Testing trade, costs, and supply chains

Security Testing market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Security Testing market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Security Testing market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Security Testing supply chain analysis

Security Testing trade analysis, Security Testing market price analysis, and Security Testing supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Security Testing market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

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