

Security Testing Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

<https://marketpublishers.com/r/S8638026DB4AEN.html>

Date: September 2025

Pages: 98

Price: US\$ 3,200.00 (Single User License)

ID: S8638026DB4AEN

Abstracts

Security Testing Market Summary

The Security Testing market encompasses a critical suite of services and tools designed to identify and mitigate vulnerabilities across software applications, networks, and connected devices, ensuring robust protection against cyber threats. This industry is defined by its blend of automated and manual testing methodologies, including penetration testing, vulnerability scanning, and compliance audits, which collectively safeguard digital ecosystems in an era of escalating cyberattacks. Key characteristics include real-time threat simulation, integration with DevSecOps pipelines, and advanced analytics for risk prioritization, enabling organizations to fortify defenses while maintaining operational agility. As digital transformation accelerates and regulatory frameworks tighten, security testing has become a cornerstone for maintaining trust and operational continuity across industries. The global Security Testing market is estimated to reach a valuation of approximately USD 10.0–20.0 billion in 2025, with compound annual growth rates projected in the range of 15%–25% through 2030. Growth is driven by the surge in sophisticated threats like ransomware, the proliferation of cloud-based infrastructures, and increasing adoption of zero-trust security models, positioning this market as a vital enabler of resilient digital operations.

Application Analysis and Market Segmentation

Retail & E-commerce Applications

Security testing in retail and e-commerce focuses on securing online payment gateways, customer data platforms, and supply chain integrations, with features like PCI-

DSS compliance scans and API vulnerability assessments. Its strength lies in protecting high-volume transaction environments against breaches. The retail and e-commerce segment is expected to grow at annual rates of 16%–22%, fueled by the global e-commerce boom and rising consumer expectations for secure online experiences. Trends include the adoption of AI-driven penetration testing for dynamic web applications and blockchain audits for transparent supply chains, addressing vulnerabilities in omnichannel retail environments.

Healthcare & Life Sciences Applications

In healthcare, security testing safeguards electronic health records, telemedicine platforms, and connected medical devices, emphasizing HIPAA-compliant vulnerability management and data encryption. This segment projects growth rates of 18%–24% annually, driven by the rapid expansion of digital health services and regulatory scrutiny. Emerging trends involve testing IoT medical devices for firmware exploits and leveraging machine learning to detect insider threats, ensuring patient data integrity and supporting seamless care delivery in interconnected ecosystems.

BFSI Applications

Banking, Financial Services, and Insurance (BFSI) rely on security testing for fraud prevention, secure mobile banking, and compliance with standards like GDPR and SOC 2. Key features include real-time threat emulation and red-teaming for financial systems. The BFSI segment anticipates 15%–21% annual growth, propelled by fintech innovations and increasing cyberattack sophistication. Developments focus on quantum-resistant cryptography testing and automated compliance reporting, addressing risks like account takeover fraud in digital-first banking models.

Government and Defense Applications

Government and defense applications prioritize testing for critical infrastructure and classified systems, featuring high-assurance penetration tests and secure code reviews. Growth is forecasted at 17%–23% per year, driven by national cybersecurity initiatives and digital governance. Trends include adversarial AI simulations to counter nation-state threats and secure cloud testing for sovereign data environments, enhancing resilience against espionage and sabotage.

Automotive Applications

Automotive security testing targets connected vehicles and autonomous driving systems, with emphasis on V2X communication security and ECU firmware validation. This segment expects 16%–22% growth annually, tied to electric vehicle adoption and smart mobility ecosystems. Innovations include over-the-air update security assessments and testing for vehicle-to-cloud interfaces, ensuring safety and trust in increasingly software-defined vehicles.

Energy & Utilities Applications

Energy and utilities testing secures SCADA systems and smart grids, incorporating OT/IT convergence testing and resilience audits. The segment projects 15%–21% growth, driven by renewable energy integrations and grid modernization. Trends emphasize testing for IoT-enabled energy meters and predictive analytics for outage prevention, mitigating risks from targeted cyberattacks on critical infrastructure.

IT & Telecommunication Applications

IT and telecom testing protects 5G networks, cloud services, and VoIP systems, featuring network penetration testing and zero-day exploit detection. Growth rates of 17%–23% annually align with global 5G rollouts and edge computing expansions. Developments include testing for network slicing vulnerabilities and AI-driven traffic analysis, ensuring robust connectivity in hyper-connected environments.

Manufacturing Applications

Manufacturing security testing safeguards IIoT devices and supply chain platforms, with features like secure PLC configurations. This segment anticipates 14%–20% growth, linked to Industry 4.0 transformations. Trends involve testing digital twins for vulnerabilities and securing cobot integrations, reducing downtime risks from ransomware.

Others Applications

Niche applications, such as education and media, focus on securing e-learning platforms and content management systems, with variable growth of 13%–19%. Trends include social engineering tests and user access audits, fostering secure collaboration.

By Type: Application Security Testing

Application security testing (AST) includes static and dynamic analysis (SAST/DAST) to secure software codebases, growing at 17%–23% with DevSecOps integration trends.

By Type: Network Security Testing

Network security testing targets firewalls and endpoints, expanding at 15%–21% with penetration testing automation.

By Type: Device Security Testing

Device security testing focuses on IoT and mobile vulnerabilities, projecting 16%–22% growth with firmware analysis trends.

By Type: Others

Other testing, like social engineering, grows at 14%–20%, emphasizing human-centric defenses.

Regional Market Distribution and Geographic Trends

North America: 14%–20% growth annually, led by the United States with robust NIST-based cybersecurity frameworks and Canada's focus on fintech security, where enterprises prioritize continuous testing for compliance.

Asia-Pacific: 18%–24% growth, driven by China's manufacturing digitalization and India's BFSI sector, with Japan and South Korea advancing in automotive and telecom testing.

Europe: 15%–21% growth, with Germany leading in automotive cybersecurity and the UK emphasizing defense and GDPR compliance. France contributes through energy sector innovations.

Latin America: 16%–22% growth, propelled by Brazil's retail e-commerce surge and Mexico's energy infrastructure upgrades, addressing digital gaps.

Middle East & Africa: 17%–23% growth, supported by the UAE's smart city cybersecurity initiatives and South Africa's government and BFSI testing demands.

Key Market Players and Competitive Landscape

The Security Testing market is fiercely competitive, blending global cybersecurity giants with specialized boutiques. Palo Alto Networks leads with integrated testing in its Prisma suite, serving thousands of enterprises and reporting 20% growth in recent filings. CrowdStrike excels in endpoint testing via Falcon, leveraging threat intelligence for 30% revenue upticks. Rapid7's Metasploit powers penetration testing, with strong SME adoption. Veracode dominates AST, scanning millions of code lines annually. Fortinet integrates testing with firewalls, Cisco offers threat grids, and IBM's X-Force emphasizes AI-driven red-teaming. Trend Micro provides hybrid cloud testing, NetSPI delivers managed pentests, and Secureworks offers incident-driven assessments. Zymr focuses on cloud-native testing, Bishop Fox on manual pentests, Synack pioneers crowdsourced testing, Offensive Security trains via Kali Linux, and Cobalt provides platform-based pentesting.

Industry Value Chain Analysis

The Security Testing value chain is structured around risk identification and mitigation, with value concentrated in actionable intelligence and integration.

Raw Materials and Upstream SupplyUpstream sources include threat intelligence feeds, vulnerability databases, and testing frameworks, with players like IBM leveraging proprietary data for robustness. Open-source tools like OWASP reduce entry barriers for smaller vendors.

Production and ProcessingProduction involves developing testing tools and methodologies, with quality ensured through certifications like CREST and rigorous vulnerability validation. Automation, as seen in Rapid7's solutions, adds scalability, while manual expertise from Bishop Fox ensures depth for complex systems.

Distribution and LogisticsDistribution occurs via SaaS platforms, managed services, and consulting, with cloud delivery enabling rapid deployment. Secureworks' managed services emphasize real-time updates, while logistics for on-site testing involve secure data transfers to comply with privacy laws.

Downstream Processing and Application IntegrationDownstream integrates testing with CI/CD pipelines, SIEM systems, and compliance platforms: in BFSI, Veracode links to fraud detection; in automotive, Cisco tests V2X protocols. This phase amplifies value through automated remediation workflows and prioritized reporting.

End-User Industries End-users across retail to defense apply testing outputs to patch vulnerabilities, reduce breach risks, and meet regulatory mandates, capturing value through operational continuity and stakeholder trust.

Market Opportunities and Challenges

Opportunities

The rise of DevSecOps in Asia-Pacific opens avenues for automated testing, with Rapid7 capitalizing on CI/CD integrations. Stringent regulations like GDPR in Europe drive premium consulting, while IoT growth in automotive and healthcare fuels device testing demand. Emerging markets offer scalability for cloud-based testing, and AI advancements from IBM enhance predictive threat modeling.

Challenges

A shortage of skilled pentesters, as faced by Synack, limits scalability, while rapidly evolving attack vectors outpace tool development. High costs deter SMEs, integration complexities with legacy systems challenge adoption, and varying global regulations complicate standardized offerings.

Contents

CHAPTER 1 EXECUTIVE SUMMARY

CHAPTER 2 ABBREVIATION AND ACRONYMS

CHAPTER 3 PREFACE

3.1 Research Scope

3.2 Research Sources

3.2.1 Data Sources

3.2.2 Assumptions

3.3 Research Method

Chapter Four Market Landscape

4.1 Market Overview

4.2 Classification/Types

4.3 Application/End Users

CHAPTER 5 MARKET TREND ANALYSIS

5.1 Introduction

5.2 Drivers

5.3 Restraints

5.4 Opportunities

5.5 Threats

CHAPTER 6 INDUSTRY CHAIN ANALYSIS

6.1 Upstream/Suppliers Analysis

6.2 Security Testing Analysis

6.2.1 Technology Analysis

6.2.2 Cost Analysis

6.2.3 Market Channel Analysis

6.3 Downstream Buyers/End Users

CHAPTER 7 LATEST MARKET DYNAMICS

7.1 Latest News

7.2 Merger and Acquisition

- 7.3 Planned/Future Project
- 7.4 Policy Dynamics

CHAPTER 8 HISTORICAL AND FORECAST SECURITY TESTING MARKET IN NORTH AMERICA (2020-2030)

- 8.1 Security Testing Market Size
- 8.2 Security Testing Market by End Use
- 8.3 Competition by Players/Suppliers
- 8.4 Security Testing Market Size by Type
- 8.5 Key Countries Analysis
 - 8.5.1 United States
 - 8.5.2 Canada
 - 8.5.3 Mexico

CHAPTER 9 HISTORICAL AND FORECAST SECURITY TESTING MARKET IN SOUTH AMERICA (2020-2030)

- 9.1 Security Testing Market Size
- 9.2 Security Testing Market by End Use
- 9.3 Competition by Players/Suppliers
- 9.4 Security Testing Market Size by Type
- 9.5 Key Countries Analysis
 - 9.5.1 Brazil
 - 9.5.2 Argentina
 - 9.5.3 Chile
 - 9.5.4 Peru

CHAPTER 10 HISTORICAL AND FORECAST SECURITY TESTING MARKET IN ASIA & PACIFIC (2020-2030)

- 10.1 Security Testing Market Size
- 10.2 Security Testing Market by End Use
- 10.3 Competition by Players/Suppliers
- 10.4 Security Testing Market Size by Type
- 10.5 Key Countries Analysis
 - 10.5.1 China
 - 10.5.2 India
 - 10.5.3 Japan

- 10.5.4 South Korea
- 10.5.5 Southeast Asia
- 10.5.6 Australia

CHAPTER 11 HISTORICAL AND FORECAST SECURITY TESTING MARKET IN EUROPE (2020-2030)

- 11.1 Security Testing Market Size
- 11.2 Security Testing Market by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Security Testing Market Size by Type
- 11.5 Key Countries Analysis
 - 11.5.1 Germany
 - 11.5.2 France
 - 11.5.3 United Kingdom
 - 11.5.4 Italy
 - 11.5.5 Spain
 - 11.5.6 Belgium
 - 11.5.7 Netherlands
 - 11.5.8 Austria
 - 11.5.9 Poland
 - 11.5.10 Russia

CHAPTER 12 HISTORICAL AND FORECAST SECURITY TESTING MARKET IN MEA (2020-2030)

- 12.1 Security Testing Market Size
- 12.2 Security Testing Market by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Security Testing Market Size by Type
- 12.5 Key Countries Analysis
 - 12.5.1 Egypt
 - 12.5.2 Israel
 - 12.5.3 South Africa
 - 12.5.4 Gulf Cooperation Council Countries
 - 12.5.5 Turkey

CHAPTER 13 SUMMARY FOR GLOBAL SECURITY TESTING MARKET (2020-2025)

- 13.1 Security Testing Market Size
- 13.2 Security Testing Market by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Security Testing Market Size by Type

CHAPTER 14 GLOBAL SECURITY TESTING MARKET FORECAST (2025-2030)

- 14.1 Security Testing Market Size Forecast
- 14.2 Security Testing Application Forecast
- 14.3 Competition by Players/Suppliers
- 14.4 Security Testing Type Forecast

CHAPTER 15 ANALYSIS OF GLOBAL KEY VENDORS

- 15.1 Palo Alto Networks
 - 15.1.1 Company Profile
 - 15.1.2 Main Business and Security Testing Information
 - 15.1.3 SWOT Analysis of Palo Alto Networks
 - 15.1.4 Palo Alto Networks Security Testing Revenue, Gross Margin and Market Share (2020-2025)
- 15.2 CrowdStrike
 - 15.2.1 Company Profile
 - 15.2.2 Main Business and Security Testing Information
 - 15.2.3 SWOT Analysis of CrowdStrike
 - 15.2.4 CrowdStrike Security Testing Revenue, Gross Margin and Market Share (2020-2025)
- 15.3 Rapid7
 - 15.3.1 Company Profile
 - 15.3.2 Main Business and Security Testing Information
 - 15.3.3 SWOT Analysis of Rapid7
 - 15.3.4 Rapid7 Security Testing Revenue, Gross Margin and Market Share (2020-2025)
- 15.4 Veracode
 - 15.4.1 Company Profile
 - 15.4.2 Main Business and Security Testing Information
 - 15.4.3 SWOT Analysis of Veracode
 - 15.4.4 Veracode Security Testing Revenue, Gross Margin and Market Share (2020-2025)
- 15.5 Fortinet

- 15.5.1 Company Profile
- 15.5.2 Main Business and Security Testing Information
- 15.5.3 SWOT Analysis of Fortinet
- 15.5.4 Fortinet Security Testing Revenue, Gross Margin and Market Share (2020-2025)
- 15.6 Cisco
 - 15.6.1 Company Profile
 - 15.6.2 Main Business and Security Testing Information
 - 15.6.3 SWOT Analysis of Cisco
 - 15.6.4 Cisco Security Testing Revenue, Gross Margin and Market Share (2020-2025)
- 15.7 IBM
 - 15.7.1 Company Profile
 - 15.7.2 Main Business and Security Testing Information
 - 15.7.3 SWOT Analysis of IBM
 - 15.7.4 IBM Security Testing Revenue, Gross Margin and Market Share (2020-2025)
- 15.8 Trend Micro
 - 15.8.1 Company Profile
 - 15.8.2 Main Business and Security Testing Information
 - 15.8.3 SWOT Analysis of Trend Micro
 - 15.8.4 Trend Micro Security Testing Revenue, Gross Margin and Market Share (2020-2025)
- 15.9 NetSPI
 - 15.9.1 Company Profile
 - 15.9.2 Main Business and Security Testing Information
 - 15.9.3 SWOT Analysis of NetSPI
 - 15.9.4 NetSPI Security Testing Revenue, Gross Margin and Market Share (2020-2025)

Please ask for sample pages for full companies list

Tables & Figures

TABLES AND FIGURES

Table Abbreviation and Acronyms

Table Research Scope of Security Testing Report

Table Data Sources of Security Testing Report

Table Major Assumptions of Security Testing Report

Figure Market Size Estimated Method

Figure Major Forecasting Factors

Figure Security Testing Picture

Table Security Testing Classification

Table Security Testing Applications

Table Drivers of Security Testing Market

Table Restraints of Security Testing Market

Table Opportunities of Security Testing Market

Table Threats of Security Testing Market

Table COVID-19 Impact for Security Testing Market

Table Raw Materials Suppliers

Table Different Production Methods of Security Testing

Table Cost Structure Analysis of Security Testing

Table Key End Users

Table Latest News of Security Testing Market

Table Merger and Acquisition

Table Planned/Future Project of Security Testing Market

Table Policy of Security Testing Market

Table 2020-2030 North America Security Testing Market Size

Figure 2020-2030 North America Security Testing Market Size and CAGR

Table 2020-2030 North America Security Testing Market Size by Application

Table 2020-2025 North America Security Testing Key Players Revenue

Table 2020-2025 North America Security Testing Key Players Market Share

Table 2020-2030 North America Security Testing Market Size by Type

Table 2020-2030 United States Security Testing Market Size

Table 2020-2030 Canada Security Testing Market Size

Table 2020-2030 Mexico Security Testing Market Size

Table 2020-2030 South America Security Testing Market Size

Figure 2020-2030 South America Security Testing Market Size and CAGR

Table 2020-2030 South America Security Testing Market Size by Application

Table 2020-2025 South America Security Testing Key Players Revenue

Table 2020-2025 South America Security Testing Key Players Market Share

Table 2020-2030 South America Security Testing Market Size by Type
Table 2020-2030 Brazil Security Testing Market Size
Table 2020-2030 Argentina Security Testing Market Size
Table 2020-2030 Chile Security Testing Market Size
Table 2020-2030 Peru Security Testing Market Size
Table 2020-2030 Asia & Pacific Security Testing Market Size
Figure 2020-2030 Asia & Pacific Security Testing Market Size and CAGR
Table 2020-2030 Asia & Pacific Security Testing Market Size by Application
Table 2020-2025 Asia & Pacific Security Testing Key Players Revenue
Table 2020-2025 Asia & Pacific Security Testing Key Players Market Share
Table 2020-2030 Asia & Pacific Security Testing Market Size by Type
Table 2020-2030 China Security Testing Market Size
Table 2020-2030 India Security Testing Market Size
Table 2020-2030 Japan Security Testing Market Size
Table 2020-2030 South Korea Security Testing Market Size
Table 2020-2030 Southeast Asia Security Testing Market Size
Table 2020-2030 Australia Security Testing Market Size
Table 2020-2030 Europe Security Testing Market Size
Figure 2020-2030 Europe Security Testing Market Size and CAGR
Table 2020-2030 Europe Security Testing Market Size by Application
Table 2020-2025 Europe Security Testing Key Players Revenue
Table 2020-2025 Europe Security Testing Key Players Market Share
Table 2020-2030 Europe Security Testing Market Size by Type
Table 2020-2030 Germany Security Testing Market Size
Table 2020-2030 France Security Testing Market Size
Table 2020-2030 United Kingdom Security Testing Market Size
Table 2020-2030 Italy Security Testing Market Size
Table 2020-2030 Spain Security Testing Market Size
Table 2020-2030 Belgium Security Testing Market Size
Table 2020-2030 Netherlands Security Testing Market Size
Table 2020-2030 Austria Security Testing Market Size
Table 2020-2030 Poland Security Testing Market Size
Table 2020-2030 Russia Security Testing Market Size
Table 2020-2030 MEA Security Testing Market Size
Figure 2020-2030 MEA Security Testing Market Size and CAGR
Table 2020-2030 MEA Security Testing Market Size by Application
Table 2020-2025 MEA Security Testing Key Players Revenue
Table 2020-2025 MEA Security Testing Key Players Market Share
Table 2020-2030 MEA Security Testing Market Size by Type

Table 2020-2030 Egypt Security Testing Market Size
Table 2020-2030 Israel Security Testing Market Size
Table 2020-2030 South Africa Security Testing Market Size
Table 2020-2030 Gulf Cooperation Council Countries Security Testing Market Size
Table 2020-2030 Turkey Security Testing Market Size
Table 2020-2025 Global Security Testing Market Size by Region
Table 2020-2025 Global Security Testing Market Size Share by Region
Table 2020-2025 Global Security Testing Market Size by Application
Table 2020-2025 Global Security Testing Market Share by Application
Table 2020-2025 Global Security Testing Key Vendors Revenue
Figure 2020-2025 Global Security Testing Market Size and Growth Rate
Table 2020-2025 Global Security Testing Key Vendors Market Share
Table 2020-2025 Global Security Testing Market Size by Type
Table 2020-2025 Global Security Testing Market Share by Type
Table 2025-2030 Global Security Testing Market Size by Region
Table 2025-2030 Global Security Testing Market Size Share by Region
Table 2025-2030 Global Security Testing Market Size by Application
Table 2025-2030 Global Security Testing Market Share by Application
Table 2025-2030 Global Security Testing Key Vendors Revenue
Figure 2025-2030 Global Security Testing Market Size and Growth Rate
Table 2025-2030 Global Security Testing Key Vendors Market Share
Table 2025-2030 Global Security Testing Market Size by Type
Table 2025-2030 Security Testing Global Market Share by Type
Table Palo Alto Networks Information
Table SWOT Analysis of Palo Alto Networks
Table 2020-2025 Palo Alto Networks Security Testing Revenue Gross Profit Margin
Figure 2020-2025 Palo Alto Networks Security Testing Revenue and Growth Rate
Figure 2020-2025 Palo Alto Networks Security Testing Market Share
Table CrowdStrike Information
Table SWOT Analysis of CrowdStrike
Table 2020-2025 CrowdStrike Security Testing Revenue Gross Profit Margin
Figure 2020-2025 CrowdStrike Security Testing Revenue and Growth Rate
Figure 2020-2025 CrowdStrike Security Testing Market Share
Table Rapid7 Information
Table SWOT Analysis of Rapid7
Table 2020-2025 Rapid7 Security Testing Revenue Gross Profit Margin
Figure 2020-2025 Rapid7 Security Testing Revenue and Growth Rate
Figure 2020-2025 Rapid7 Security Testing Market Share
Table Veracode Information

Table SWOT Analysis of Veracode

Table 2020-2025 Veracode Security Testing Revenue Gross Profit Margin

Figure 2020-2025 Veracode Security Testing Revenue and Growth Rate

Figure 2020-2025 Veracode Security Testing Market Share

Table Fortinet Information

Table SWOT Analysis of Fortinet

Table 2020-2025 Fortinet Security Testing Revenue Gross Profit Margin

Figure 2020-2025 Fortinet Security Testing Revenue and Growth Rate

Figure 2020-2025 Fortinet Security Testing Market Share

Table Cisco Information

Table SWOT Analysis of Cisco

Table 2020-2025 Cisco Security Testing Revenue Gross Profit Margin

Figure 2020-2025 Cisco Security Testing Revenue and Growth Rate

Figure 2020-2025 Cisco Security Testing Market Share

Table IBM Information

Table SWOT Analysis of IBM

Table 2020-2025 IBM Security Testing Revenue Gross Profit Margin

Figure 2020-2025 IBM Security Testing Revenue and Growth Rate

Figure 2020-2025 IBM Security Testing Market Share

Table Trend Micro Information

Table SWOT Analysis of Trend Micro

Table 2020-2025 Trend Micro Security Testing Revenue Gross Profit Margin

Figure 2020-2025 Trend Micro Security Testing Revenue and Growth Rate

Figure 2020-2025 Trend Micro Security Testing Market Share

Table NetSPI Information

Table SWOT Analysis of NetSPI

Table 2020-2025 NetSPI Security Testing Revenue Gross Profit Margin

Figure 2020-2025 NetSPI Security Testing Revenue and Growth Rate

Figure 2020-2025 NetSPI Security Testing Market Share

.....

I would like to order

Product name: Security Testing Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

Product link: <https://marketpublishers.com/r/S8638026DB4AEN.html>

Price: US\$ 3,200.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/S8638026DB4AEN.html>