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AI Security Operations Center (SOC) Market by Software Platform (AI-Native SOC, AI SOC Agents, Security Data Platforms), Service (AI-Augmented MDR, AI SOC-as-a-Service, Incident Response & Forensics), Application, Vertical – Global Forecast to 2031

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Abstracts

The AI Security Operations Center (SOC) market is projected to grow from USD 18.10 billion in 2026 to USD 47.07 billion by 2031 at a CAGR of 21.1% during the forecast period. This growth is driven by the rapid adoption of generative AI, autonomous AI agents, and AI-powered business applications across enterprises. As AI becomes integral to business operations, organizations are increasingly investing in AI-native security platforms capable of protecting AI workloads, securing machine identities, monitoring autonomous actions, and ensuring policy compliance. Simultaneously, governments and industry bodies are advancing responsible AI governance through regulatory frameworks, security standards, and trusted AI initiatives, further accelerating enterprise investment in AI security. These developments are creating significant opportunities for AI SOC platforms to enable autonomous, resilient, and intelligence-driven security operations across modern hybrid and multi-cloud enterprise environments.

“By software platform, the AI SOC agent solutions segment is expected to witness the highest CAGR during the forecast period.”

The AI SOC agent solutions segment is expected to register the highest CAGR during the forecast period due to the rapid adoption of agentic AI capable of autonomously investigating alerts, correlating security events, executing response workflows, and

supporting analyst decision-making. Unlike traditional AI copilots, AI SOC agents can perform multi-step reasoning, automate repetitive SOC tasks, and continuously adapt to evolving threats, significantly improving operational efficiency. Growing enterprise demand for autonomous security operations, coupled with increasing investments in AI agents and intelligent workflow automation, is accelerating adoption across large enterprises and managed security providers.

“By organization size, the large enterprises segment is projected to hold the largest market share in 2026.”

The large enterprises segment is projected to hold the largest share of the AI SOC market in 2026. This high growth is due to the scale and complexity of their digital ecosystems, extensive attack surfaces, and high volumes of security events generated across global operations. These organizations require continuous threat visibility, intelligent correlation of multi-domain telemetry, and rapid decision-making to protect business-critical assets and maintain operational resilience. Additionally, stringent regulatory obligations, increasing adoption of AI-driven business processes, and sustained investments in cybersecurity transformation are driving the deployment of advanced AI SOC platforms across large enterprises.

“By vertical, the energy & utilities segment is expected to grow at the highest CAGR during the forecast period.”

The energy & utilities segment is expected to register the highest CAGR in the AI SOC market during the forecast period due to the rapid digitalization of critical infrastructure, increasing cyberattacks targeting operational technology (OT) and industrial control systems (ICS), and the growing adoption of AI across grid operations. As utilities modernize power grids, integrate renewable energy, and deploy AI-enabled control systems, organizations are investing in AI-driven security operations to continuously monitor, detect, and respond to cyber threats across IT and OT environments. Rising government focus on protecting critical infrastructure and increasing investments in resilient cyber defense are further accelerating AI SOC adoption across the energy and utilities sector.

Breakdown of Primaries

The study draws insights from a range of industry experts, including component suppliers, Tier 1 companies, and OEMs. The break-up of the primaries is as follows:

By Company Type: Tier 1 – 35%, Tier 2 – 45%, and Tier 3 – 20%

By Designation: C-level Executives – 50%, Managers and Other Levels – 50%

By Region: North America – 25%, Europe – 30%, Asia Pacific – 25%, Middle East & Africa – 10%, Latin America – 10%

Major vendors in the AI SOC market include Microsoft (US), Cisco (US), CrowdStrike (US), Palo Alto Networks (US), Google (US), Sophos (US), IBM (US), Fortinet (US), Arctic Wolf (US), Elastic (Netherlands), Rapid7 (US), SentinelOne (US), Lumu Technologies (US), ReliaQuest (US), Exabeam (US), eSentire (Canada), Expel (US), Huntress (US), UnderDefense (US), Stellar Cyber (US), Radiant Security (US), Torq (US), Intezer (US), Conifers.AI (US), Dropzone AI (US), Simbian (US), Prophet Security (US), Legion Security (US), CyberSilo (US), Bricklayer AI (US), Augur (US), BlinkOps (US), Gruve (US), Swimlane (US), CyberNX (India), Anvilogic (US), AIStrike (US), D3 Security (Canada), Exaforce (US), Riversafe (UK), SOC Jedi.AI (US), and Vulnuris (India).

The study includes an in-depth competitive analysis of the key players in the AI SOC market, their company profiles, recent developments, and key market strategies.

Research Coverage

The report segments the AI SOC market and forecasts its size based on offerings (software platforms (AI-enabled detection and analytics platforms, AI-orchestrated response and automation platforms, AI-native SOC platforms, AI SOC agent solutions, security data platforms, threat intelligence platforms, AI governance, risk, and compliance solutions)), services (AI-augmented managed detection and response (MDR), AI SOC-as-a-service (SOCAAS), incident response and forensics services, threat intelligence and advisory services)), organization size (SMEs, large enterprises), application (threat detection and monitoring, alert triage and prioritization, incident investigation and analysis, threat hunting, incident response and remediation, insider threat detection, cloud security monitoring, identity and access monitoring, compliance monitoring and reporting, security analytics and visualization), vertical (banking, financial services, and insurance (BFSI), government and defense, healthcare and life sciences, IT and telecommunications, manufacturing, retail and ecommerce, energy and utilities, media and entertainment, education, others), and region (North America, Europe, Asia Pacific, Middle East & Africa, and Latin America).

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The study also includes an in-depth competitive analysis of the market's key players, their company profiles, key observations related to product and business offerings, recent developments, and key market strategies.

Key Benefits of Buying the Report

The report will help market leaders/new entrants with information on the closest approximations of revenue numbers for the overall AI SOC market and its subsegments. This report will help stakeholders understand the competitive landscape and gain valuable insights to better position their businesses and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of critical drivers (Rising AI-powered cyber threats, Increasing adoption of cloud, hybrid, and identity-centric infrastructures, Expansion of autonomous AI agents across enterprise environments, Growing shortage of skilled cybersecurity professionals), restraints (Limited trust in autonomous AI decision-making, Evolving AI governance and regulatory landscape), opportunities (AI SOC adoption among small and medium-sized enterprises (SMEs), AI security for agentic and generative AI environments, Unified AI-native security platforms, AI SOC-as-a-service and managed AI security operations), and challenges (Ensuring accuracy and reliability of AI-generated security decisions, Addressing AI model security and adversarial threats).

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, new products, and service launches in the AI SOC market.

Market Development: Comprehensive information about lucrative markets – the report analyzes the AI SOC market across varied regions.

Market Diversification: Exhaustive information about new products and services, untapped geographies, recent developments, and investments in the AI SOC market.

Competitive Assessment: In-depth assessment of market shares, growth

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strategies, and service offerings of leading players, such as Microsoft (US), Cisco US), CrowdStrike (US), Palo Alto Networks (US), Google (US), and Rapid7 (US), among others, in the AI SOC market.

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