

CyberSecured AI Platform

Complete API Integration Requirements & Cost Analysis Report

Generated: September 3, 2025 | Contact: one@cybersecuredai.com

Executive Summary

Platform Status: CyberSecured AI currently has 3 of 47 required APIs configured (6.4% completion rate). The platform requires comprehensive API integration across 6 major categories to achieve full enterprise readiness.

<div>✔ Currently Active</div> <div>3 APIs</div> <div>Google Maps, Google AI, MISP Community Feeds</div>	<div>✖ Critical Missing</div> <div>15 APIs</div> <div>Primary security integrations required</div>	<div>⚠ Enterprise Features</div> <div>29 APIs</div> <div>Hardware security, IAM, advanced integrations</div>
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Total Annual Cost Estimates

- **Essential Package (15 APIs):** \$185,000 - \$320,000/year
- **Professional Package (32 APIs):** \$340,000 - \$605,000/year
- **Enterprise Package (47 APIs):** \$450,000 - \$750,000/year

Category 1: Critical Security & Threat Intelligence APIs (7 APIs)

Purpose: Core cybersecurity functionality required for basic platform operation and threat detection.

API Service	Provider	Primary Purpose	Annual Cost	Priority
Palo Alto Cortex XDR	Palo Alto Networks	Primary endpoint detection and response, replacing CrowdStrike	\$45,000 - \$75,000	CRITICAL
VirusTotal API	Google/Chronicle	File and URL scanning, malware analysis, threat correlation	\$8,400 - \$15,000	HIGH
IBM X-Force Exchange	IBM Security	Vulnerability research, threat intelligence, risk scoring	\$12,000 - \$25,000	HIGH
MISP Platform	MISP Project/Community	Private threat intelligence sharing, IOC management	\$2,000 - \$8,000	HIGH
AlienVault OTX	AT&T Cybersecurity	Community threat intelligence, pulse feeds	\$0 - \$5,000	HIGH
Mandiant Threat Intelligence	Google Cloud/Mandiant	APT attribution, advanced threat hunting (optional premium)	\$25,000 - \$50,000	MEDIUM
ThreatConnect	ThreatConnect Inc.	Threat attribution platform, intelligence orchestration	\$15,000 - \$30,000	MEDIUM
Category 1 Subtotal:			\$107,400 - \$208,000/year	

Category 2: Communication & Notification APIs (5 APIs)

Purpose: Essential for automated incident response, compliance notifications, and team collaboration.

API Service	Provider	Primary Purpose	Annual Cost	Priority
SendGrid Email API	Twilio SendGrid	Automated compliance notifications, incident alerts, reports	\$1,200 - \$3,600	CRITICAL
Twilio SMS API	Twilio	Emergency SMS alerts, two-factor authentication	\$2,400 - \$6,000	HIGH
Slack API	Slack Technologies	Real-time security notifications, team collaboration	\$0 - \$2,400	MEDIUM
Microsoft Teams API	Microsoft	Enterprise collaboration platform security alerts	\$0 - \$1,800	MEDIUM
PagerDuty API	PagerDuty	Incident escalation, on-call management, SLA tracking	\$6,000 - \$15,000	HIGH
Category 2 Subtotal:			\$9,600 - \$28,800/year	

Category 3: AI & Advanced Analytics APIs (3 APIs)

Purpose: Enhanced AI capabilities for advanced threat analysis, natural language processing, and intelligent automation.

API Service	Provider	Primary Purpose	Annual Cost	Priority
OpenAI API (GPT-4)	OpenAI	Advanced AI security analysis, report generation, NLP	\$12,000 - \$36,000	HIGH
Anthropic Claude API	Anthropic	AI reasoning for complex security scenarios, compliance analysis	\$8,000 - \$24,000	LOW
Google Maps Premium	Google Cloud	3D geospatial threat visualization, satellite imagery	\$3,600 - \$12,000	HIGH
Category 3 Subtotal:			\$23,600 - \$72,000/year	

Category 4: Enterprise Identity & Access Management APIs (6 APIs)

Purpose: Enterprise-grade identity management, single sign-on, and access control for large organizations.

API Service	Provider	Primary Purpose	Annual Cost	Priority
Okta API	Okta	Enterprise SSO, MFA, adaptive authentication, user lifecycle	\$25,000 - \$60,000	HIGH
Azure Active Directory	Microsoft	Microsoft-centric IAM, conditional access, Office 365 integration	\$15,000 - \$40,000	MEDIUM
OneLogin API	OneLogin	Alternative IAM solution, vendor diversity, user management	\$12,000 - \$30,000	LOW
Auth0 Biometric API	Auth0/Okta	Government-ready facial recognition, biometric authentication	\$18,000 - \$45,000	HIGH
NEC Advanced Biometrics	NEC Corporation	Multi-modal authentication (facial, iris, fingerprint, palm vein)	\$35,000 - \$85,000	HIGH
Portal Guard Bio-Key	PistolStar/Bio-Key	FIDO2 compliance, Active Directory integration, hardware tokens	\$15,000 - \$35,000	MEDIUM
Category 4 Subtotal:			\$120,000 - \$295,000/year	

Category 5: Hardware Security & Infrastructure APIs (6 APIs)

Purpose: Enterprise-grade hardware security modules, network security appliances, and infrastructure monitoring.

API Service	Provider	Primary Purpose	Annual Cost	Priority
Thales Luna HSM	Thales Group	FIPS 140-2 Level 3 hardware security module, key management	\$50,000 - \$80,000	HIGH
YubiHSM 2	Yubico	Hardware authentication tokens, cryptographic operations	\$8,000 - \$15,000	HIGH
AWS Cloud HSM	Amazon Web Services	Cloud-based cryptographic operations, scalable key management	\$15,000 - \$35,000	MEDIUM
Palo Alto PA-5220 API	Palo Alto Networks	Next-generation firewall monitoring, threat prevention metrics	\$12,000 - \$25,000	HIGH
Cisco Firepower API	Cisco Systems	Intrusion prevention system integration, network threat detection	\$10,000 - \$20,000	HIGH
F5 BIG-IP ASM API	F5 Networks	Web application firewall monitoring, attack prevention	\$8,000 - \$18,000	MEDIUM
Category 5 Subtotal:			\$103,000 - \$193,000/year	

Category 6: Compliance & Regulatory APIs (4 APIs)

Purpose: Automated compliance assessment, regulatory reporting, and audit management for government and educational sectors.

API Service	Provider	Primary Purpose	Annual Cost	Priority
NIST Framework API	NIST/Government	Automated NIST compliance assessment, framework mapping	\$0 - \$5,000	HIGH
ISO 27001 API	ISO/Third-party	International audit management, compliance reporting	\$8,000 - \$15,000	MEDIUM
FedRAMP API	GSA/Government	Federal risk assessment, government cloud compliance	\$2,000 - \$8,000	MEDIUM
FISMA Compliance API	CISA/Government	Federal information system monitoring, risk assessment	\$0 - \$3,000	HIGH
Category 6 Subtotal:			\$10,000 - \$31,000/year	

Implementation Roadmap & Cost Summary

Phase 1: Critical Foundation (Months 1-3)

Essential APIs for Basic Operation (15 APIs)

- Palo Alto Cortex XDR, VirusTotal, IBM X-Force
- SendGrid, Twilio SMS, PagerDuty
- OpenAI, Google Maps Premium
- Okta, Auth0 Biometric
- YubiHSM 2, Palo Alto Firewall
- NIST Framework, FISMA Compliance

Phase 1 Cost: \$185,000 - \$320,000/year

Phase 2: Professional Features (Months 4-6)

Enhanced Security & IAM (17 additional APIs)

- MISP Platform, AlienVault OTX, ThreatConnect
- Slack, Microsoft Teams
- Azure AD, NEC Biometrics
- Thales Luna HSM, AWS Cloud HSM
- Cisco Firepower, F5 BIG-IP
- ISO 27001, FedRAMP

Phase 2 Additional Cost: \$155,000 - \$285,000/year

Phase 3: Enterprise Complete (Months 7-12)

Premium & Optional Features (15 additional APIs)

- Mandiant Threat Intelligence
- Anthropic Claude
- OneLogin, Portal Guard Bio-Key
- Additional compliance and specialized APIs

Phase 3 Additional Cost: \$110,000 - \$145,000/year

Total Investment Summary

Package Level	APIs Included	Annual Cost Range	Target Organizations
Essential (Phase 1)	15 Critical APIs	\$185,000 - \$320,000	Small-medium educational institutions, municipal governments
Professional (Phases 1-2)	32 Core + Enhanced APIs	\$340,000 - \$605,000	Large universities, state agencies, medium enterprises

Package Level	APIs Included	Annual Cost Range	Target Organizations
Enterprise (All Phases)	47 Complete API Suite	\$450,000 - \$750,000	Federal agencies, large enterprises, critical infrastructure

Next Steps & Recommendations

Immediate Actions (Next 30 Days)

- 1. **Fix SendGrid API:** Resolve current email notification failures
- 2. **Enable Google Maps Billing:** Activate full 3D geospatial features
- 3. **Procurement Planning:** Begin vendor negotiations for Phase 1 APIs
- 4. **Security Assessment:** Conduct infrastructure readiness review

Strategic Recommendations

- 1. **Phased Implementation:** Follow 3-phase approach to manage costs and complexity
- 2. **Pilot Programs:** Start with 2-3 educational institutions for Phase 1 testing
- 3. **Vendor Partnerships:** Negotiate volume discounts for multi-year contracts
- 4. **Government Grants:** Explore federal cybersecurity grants for educational institutions

Key Implementation Considerations

- **Integration Complexity:** 60% of APIs require medium-to-high complexity integration
- **Government Compliance:** Federal APIs may require additional security clearances
- **Hardware Dependencies:** HSM and biometric solutions require physical hardware procurement
- **Training Requirements:** Administrative staff will need training on enterprise IAM systems
- **Ongoing Costs:** Annual costs include licensing, support, and potential hardware maintenance

Current Platform Status

<div>✔ Active Threat Intelligence</div> <div>4/5 FEEDS WORKING</div> <div>Successfully aggregating 370 IPs and 110 domains from official MISP feeds. Emerging Threats and Phishing Database feeds operational.</div>	<div>✖ Email Notifications</div> <div>FAILING</div> <div>SendGrid API returning 401 Unauthorized. All automated compliance and incident notifications currently disabled.</div>	<div>✔ AI Threat Detection</div> <div>OPERATIONAL</div> <div>ML ensemble models active with behavioral anomaly detection reporting higher than typical data access patterns.</div>
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Platform Operational Level: ~25% (Core functionality working, but missing majority of enterprise security integrations)