SECURITY ECOSYSTEM INTEGRATION

Vulnerability Management Maturity Model (VMMM v2)

Domain: Identify
Maturity Tier: Enhanced

EXECUTIVE SNAPSHOT

Why this matters:

- VM operates in isolation requiring manual coordination with SIEM, SOAR, ticketing systems

What breaks without it:

- Analysts must switch tools to correlate vulnerabilities with alerts—context lost, delays multiply
- Manual ticket creation from scan results takes hours—remediation workflow delayed

What "good" looks like:

- Level 3: API integration, automated tickets, SIEM enrichment, asset synchronization
- Level 4+: SOAR orchestration, threat intelligence correlation, real-time compliance feeds

Who should care:

- Security teams integrating VM data into SIEM, SOAR, and monitoring platforms
- Security architects designing tool ecosystems with automated VM data flow
- Operations teams requiring automated workflows eliminating manual coordination

URGENCY ASSESSMENT

☑ Operational Efficiency (eliminates manual coordination overhead)
☑ Strategic Enhancement (enables coordinated security operations)

FRAMEWORK ALIGNMENT EXAMPLES

NIST 800-53: Enriches system monitoring with vulnerability context

NIST CSF 2.0: Demonstrates detection and analysis incorporating VM data

CIS v8: Supports audit log analysis enriched with vulnerability data

ISO 27001: Shows monitoring and threat intelligence with VM integration

MATURITY QUICK CHECK

○ Level 1: No integration, VM isolated, manual data sharing
○ Level 2: Scheduled exports/imports, CSV files, quality issues
○ Level 3: **API integration, automated tickets, SIEM enrichment, asset sync**
○ Level 4: SOAR orchestration, threat intelligence correlation, health monitoring
○ Level 5: Measured effectiveness, automated healing, continuous optimization

DEPENDENCIES & BOUNDARIES

Depends on: Asset Inventory, Threat Intelligence Integration, Metrics & Reporting

Enables: Coordinated security operations across SIEM, SOAR, ticketing, compliance

This is NOT: Tool selection guide, guarantee eliminating all manual work

Related Resources: Security Ecosystem Integration Guide · Framework Mapping · Self-Assessment