

FISMA Overview

Summary

The **Federal Information Security Modernization Act (FISMA)**, enacted in 2014 (Pub. L. 113-283, updating the 2002 FISMA), is a U.S. federal law that mandates a framework for securing federal information systems and data to protect national security, economic interests, and public safety. Administered by the **Office of Management and Budget (OMB)** and overseen by the **National Institute of Standards and Technology (NIST)**, FISMA requires federal agencies and their contractors to implement robust cybersecurity programs based on NIST standards (e.g., NIST SP 800-53). It emphasizes risk-based security, continuous monitoring, and incident reporting to address threats like cyberattacks and data breaches. Non-compliance can result in loss of system authorization, budget restrictions, or penalties under the False Claims Act. As of October 2025, FISMA aligns with modern cybersecurity priorities like zero-trust architecture, cloud security, and supply chain risk management.

Key Requirements

FISMA establishes a **Risk Management Framework (RMF)**, primarily based on NIST SP 800-37 and 800-53, to secure federal information systems. Key requirements include:

1. **System Categorization:**
 - Categorize systems based on impact (Low, Moderate, High) per **FIPS 199** (Standards for Security Categorization).
 - Assess potential impact on confidentiality, integrity, and availability.
2. **Security Control Selection and Implementation:**
 - Select and implement security controls from NIST SP 800-53 (over 1,000 controls across 20 families, e.g., access control, encryption). (Note: The exact number of controls varies by revision; not all apply to every system.)
 - Tailor controls to system impact level (e.g., more stringent for High-impact systems).
 - Use encryption (e.g., AES-256, TLS 1.3), multi-factor authentication (MFA), and zero-trust principles.
3. **System Security Plan (SSP):**
 - Develop a documented SSP detailing control implementation, roles, and responsibilities.
 - Update SSP annually or after significant changes.
4. **Risk Assessment:**
 - Conduct risk assessments per **NIST SP 800-30** to identify threats, vulnerabilities, and mitigation strategies.
 - Perform regular vulnerability scans and remediate findings.
5. **Continuous Monitoring:**
 - Implement ongoing monitoring of security controls (e.g., intrusion detection, log analysis).
 - Use automated tools for real-time threat detection (per NIST SP 800-137).
6. **Authorization to Operate (ATO):**

- Obtain ATO from a designated official after independent assessment of controls.
- Reassess ATO every 3 years or after major system changes.
- 7. **Incident Response and Reporting:**
 - Develop and test incident response plans per **NIST SP 800-61**.
 - Report significant incidents to the **U.S. Computer Emergency Readiness Team (US-CERT)** within 1 hour for critical incidents (per OMB Memo M-20-04).
 - Notify affected parties as required.
- 8. **Supply Chain Risk Management:**
 - Assess and monitor third-party vendors for cybersecurity risks (per NIST SP 800-161).
 - Include security clauses in contracts.
- 9. **Annual Reporting:**
 - Submit annual FISMA reports to OMB, detailing security posture, incidents, and compliance status.
 - Undergo Inspector General (IG) or third-party audits.

2025 Context: FISMA emphasizes cloud security (aligned with FedRAMP), zero-trust adoption (per OMB M-22-09), and rapid incident reporting. Emerging focus on AI and quantum-resistant cryptography.

Who Is Affected

- **Federal Agencies:**
 - All U.S. federal agencies (e.g., DoD, HHS, VA) managing information systems or data.
- **Contractors and Non-Federal Organizations:**
 - Entities handling federal data or operating systems under federal contracts (e.g., defense contractors, cloud providers, research institutions).
 - Includes those subject to NIST SP 800-171/172 or CMMC for DoD contracts.
- **Employees and Vendors:**
 - IT, security, and compliance staff implementing FISMA controls.
 - Third-party vendors (e.g., SaaS providers) must comply with FISMA via contract terms.
- **Subcontractors:**
 - Flow-down requirements apply to subcontractors in federal supply chains.
- **Impact of Non-Compliance:**
 - Loss of ATO, contract termination, or ineligibility for future contracts.
 - Penalties under False Claims Act (\$13,946 per violation, adjusted 2025). (This amount is adjusted annually for inflation.)
 - Budget restrictions or congressional oversight for agencies.
 - Reputational damage and loss of trust.

Informational Resources

- **NIST FISMA Implementation Project:** csrc.nist.gov/projects/risk-management/fisma-implementation (overview, RMF steps, FAQs).

- **NIST SP 800-53:** nist.gov/itl/publications-0/nist-special-publication-800-53 (free control catalog, mappings).
- **OMB FISMA Guidance:** whitehouse.gov/omb/memoranda (e.g., M-20-04 for reporting, M-22-09 for zero-trust).
- **CISA Cybersecurity Resources:** cisa.gov/cybersecurity (incident reporting, FISMA metrics, US-CERT portal).
- **Training and Tools:**
 - NIST RMF Training: csrc.nist.gov/projects/risk-management/training (free webinars, guides).
 - SANS FISMA Compliance Courses: sans.org (paid training for RMF/800-53).
 - NIST Templates: nist.gov (free SSP, POA&M, risk assessment templates).
 - FedRAMP Resources: fedramp.gov (cloud compliance aligned with FISMA).
- **Industry Resources:**
 - “FISMA Compliance Handbook” (free PDFs from vendors like Tenable, Splunk).
 - CISA Cyber Essentials: cisa.gov/cyber-essentials (basic FISMA-aligned cybersecurity practices).
 - DoD DIBCAC Handbook: dodcio.defense.gov (assessment guidance for contractors).
- **Community Support:**
 - NIST Cybersecurity Framework Forums: nist.gov/cyberframework (peer discussions).
 - ISACA Cybersecurity Community: isaca.org (FISMA implementation advice).
 - NDIA Cybersecurity Events: ndia.org (for federal contractors).