



NIST RMF Team sec-cert@nist.gov

NIST Special Publication (SP) 800-37

Risk Management Framework (RMF) for Information Systems & Organizations





ADDRESSES

CYBERSECURITY & PRIVACYRISK





3 REVISIONS SINCE

2004



JOINT TASK FORCE



MANDATED BY

OMB A-130

FOR FEDERAL AGENCIES





PROVIDES LINKS TO OTHER KEY

NIST PUBS

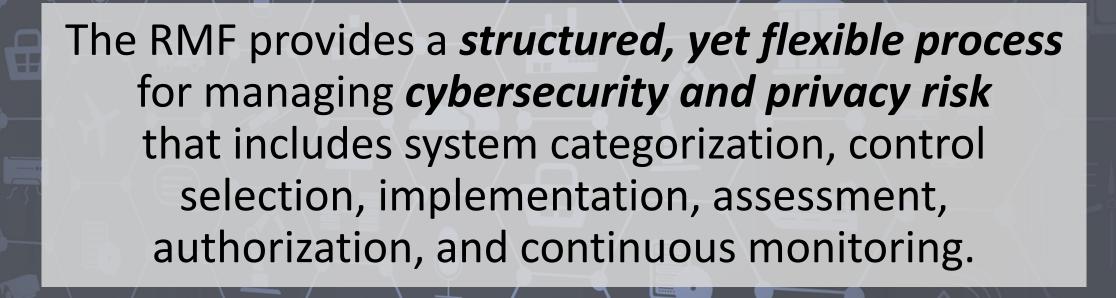


ROBUST FEDERAL IMPLEMENTATION OF THE

CYBERSECURITY FRAMEWORK

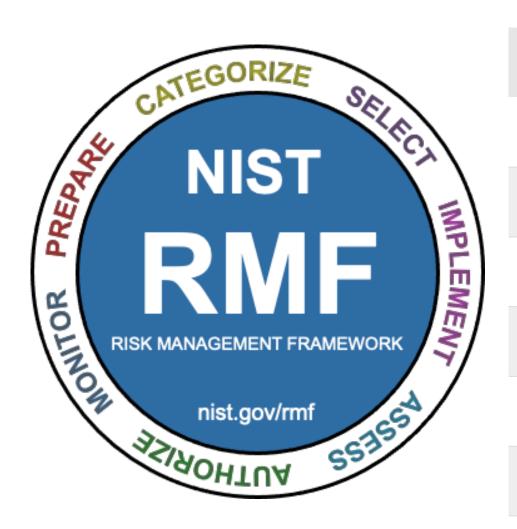
Risk Management Framework Overview





Risk Management Framework Steps





Essential activities to **prepare** the organization to manage security and privacy risks

Categorize the system and information processed, stored, and transmitted based on an impact analysis

Select the set of NIST SP 800-53 controls to protect the system based on risk assessment(s)

Implement the controls and document how controls are deployed

Assess to determine if the controls are in place, operating as intended, and producing the desired results

Senior official makes a risk-based decision to **authorize** the system (to operate)

Continuously **monitor** control implementation and risks to the system

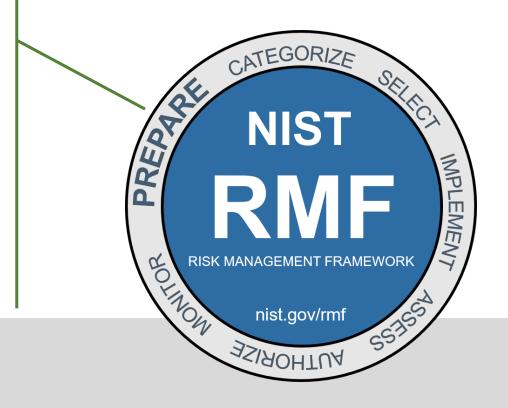
RMF Prepare Step



Purpose: carry out essential activities at all three risk management levels to help prepare the organization to manage its security and privacy risks using the RMF.

Organization-& Mission/Business Process Level Tasks

- **P-1:** Risk Management Roles
- P-2: Risk Management Strategy
- **P-3:** Risk Assessment Organization
- **P-4:** Organizationally-tailored Control Baselines and Cybersecurity Framework Profiles (optional)
- P-5: Common Control Identification
- **P-6:** Impact Level Prioritization (optional)
- **P-7:** Continuous Monitoring Strategy Organization
- P-8: Mission or Business Focus









RMF Prepare Step



System Level Tasks

P-9: System Stakeholders

P-10: Asset Identification

P-11: Authorization Boundary

P-12: Information Types

P-13: Information Life Cycle

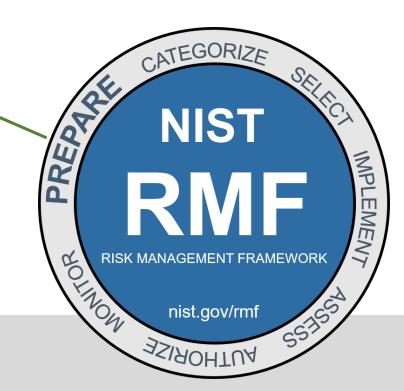
P-14: Risk Assessment - System

P-15: Requirements Definition

P-16: Enterprise Architecture

P-17: Requirements Allocation

P-18: System Registration















RMF Categorize Step

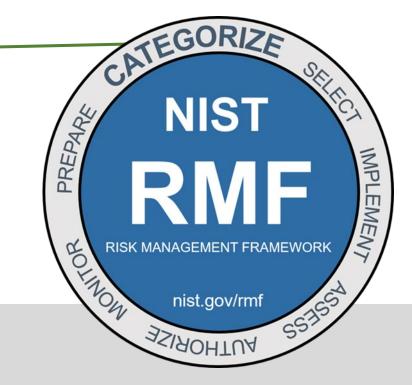


Purpose: inform organizational risk management processes and tasks by determining the adverse impact of the loss of confidentiality, integrity, and availability of organizational systems and information to the organization.

C-1: System Description

C-2: Security Categorization

C-3: Security Categorization Review and Approval





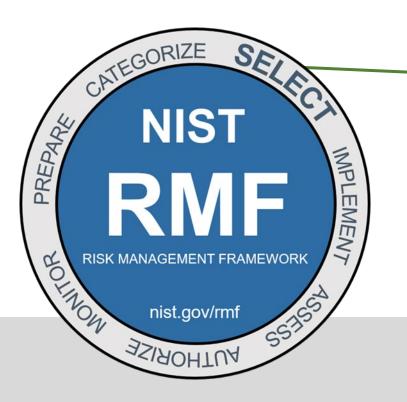




RMF Select Step



Purpose: select, tailor, and document the controls necessary to protect the information system and organization commensurate with risk to organizational operations and assets, individuals, and the Nation.



S-1: Control Selection

S-2: Control Tailoring

S-3: Control Allocation

S-4: Documentation of Planned Control Implementations

S-5: Continuous Monitoring Strategy – System

S-6: Plan Review and Approval





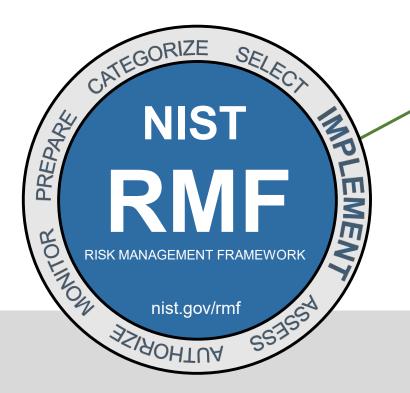




RMF Implement Step



Purpose: implement the controls as specified in security and privacy plans for the system and for the organization, and update the plans with the as-implemented details.



I-1: Control Implementation

I-2: Update Control Implementation Information

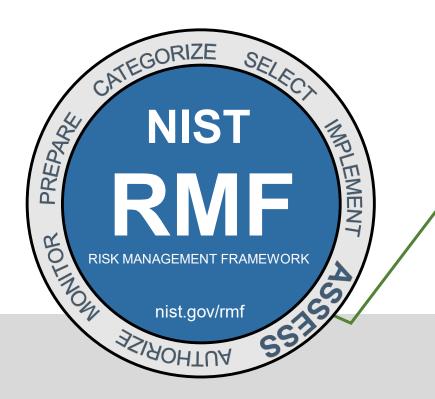




RMF Assess Step



Purpose: determine if the controls selected for implementation are implemented correctly, operating as intended, and producing the desired outcome with respect to meeting the security and privacy requirements for the system and organization.



A-1: Assessor Selection

A-2: Assessment Plan

A-3: Control Assessments

A-4: Assessment Report

A-5: Remediation Actions

A-6: Plan of Action and Milestones

RMF Authorize Step



Purpose: provide accountability by requiring a senior management official to determine if the security and privacy risk to organizational operations and assets, individuals, other organizations, or the Nation based on the operation of a system or the use of common controls, is acceptable.



R-1: Authorization Package

R-2: Risk Analysis and Determination

R-3: Risk Response

R-4: Authorization Decision

R-5: Authorization Reporting



RMF Monitor Step



Purpose: maintain an ongoing situational awareness about the security and privacy posture of the system and the organization in support of risk management decisions.

M-1: System and Environment Changes

M-2: Ongoing Assessments

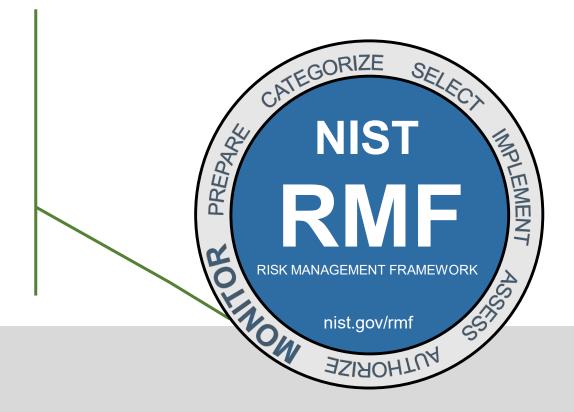
M-3: Ongoing Risk Response

M-4: Authorization Package Updates

M-5: Security and Privacy Reporting

M-6: Ongoing Authorization

M-7: System Disposal









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