

Configuration Management Implementation Checklist

Policy and Documentation

- ☐ **CM-01:** Develop, document, and disseminate organization-level, mission/business process-level, and system-level configuration management policy
- ☐ **CM-01:** Ensure configuration management policy addresses purpose, scope, roles, responsibilities, management commitment, coordination among organizational entities, and compliance
- ☐ **CM-01:** Verify configuration management policy is consistent with applicable laws, executive orders, directives, regulations, policies, standards, and guidelines
- ☐ **CM-01:** Document procedures to facilitate implementation of the configuration management policy and associated controls
- ☐ **CM-01:** Designate an official to manage the development, documentation, and dissemination of configuration management policy and procedures
- ☐ **CM-01:** Review and update configuration management policy at least every 3 years or as required by federal or organizational policy changes
- ☐ **CM-01:** Review and update configuration management procedures at least every 3 years or as required by federal or organizational policy changes

Baseline Configuration Management

- ☐ **CM-02:** Develop, document, and maintain under configuration control a current baseline configuration of the system
- ☐ **CM-02:** Review and update baseline configuration at least annually
- ☐ **CM-02:** Review and update baseline configuration when required due to organization-defined circumstances
- ☐ **CM-02:** Review and update baseline configuration when system components are installed or upgraded
- ☐ **CM-02(02):** Maintain currency, completeness, accuracy, and availability of baseline configuration using organization-defined automated mechanisms



FedRAMP Moderate Templates

- ☐ **CM-02(03):** Retain at least one previous version of baseline configurations to support rollback
- ☐ **CM-02(07):** Issue organization-defined systems or system components with organization-defined configurations to individuals traveling to locations deemed to be of significant risk
- ☐ **CM-02(07):** Apply organization-defined controls to systems or components when individuals return from travel to high-risk locations

Configuration Change Control

- ☐ **CM-03:** Determine and document types of changes to the system that are configuration-controlled
- ☐ **CM-03:** Review proposed configuration-controlled changes and approve or disapprove with explicit consideration for security and privacy impact analyses
- ☐ **CM-03:** Document configuration change decisions associated with the system
- ☐ **CM-03:** Implement approved configuration-controlled changes to the system
- ☐ **CM-03:** Retain records of configuration-controlled changes for at least 1 year
- ☐ **CM-03:** Monitor and review activities associated with configuration-controlled changes
- ☐ **CM-03:** Coordinate and provide oversight for configuration change control activities through organization-defined configuration change control element
- ☐ **CM-03:** Convene configuration change control element as required by the CCB or for changes identified by the organization
- ☐ **CM-03(02):** Test, validate, and document changes to the system before finalizing implementation
- ☐ **CM-03(04):** Require organization-defined security and privacy representatives to be members of the configuration change control element

Security and Privacy Impact Analysis

- ☐ **CM-04:** Analyze changes to the system to determine potential security and privacy impacts prior to change implementation
- ☐ **CM-04(02):** After system changes, verify that impacted controls are implemented correctly
- ☐ **CM-04(02):** After system changes, verify that impacted controls are operating as intended



FedRAMP Moderate Templates

- ☐ **CM-04(02):** After system changes, verify that impacted controls are producing desired outcome with regard to meeting security and privacy requirements

Access Restrictions for Change

- ☐ **CM-05:** Define physical and logical access restrictions associated with changes to the system
- ☐ **CM-05:** Document physical and logical access restrictions associated with changes to the system
- ☐ **CM-05:** Approve physical and logical access restrictions associated with changes to the system
- ☐ **CM-05:** Enforce physical and logical access restrictions associated with changes to the system
- ☐ **CM-05(01):** Enforce access restrictions using organization-defined automated mechanisms
- ☐ **CM-05(01):** Automatically generate audit records of the enforcement actions
- ☐ **CM-05(05):** Limit privileges to change system components and system-related information within production or operational environment
- ☐ **CM-05(05):** Review and reevaluate privileges at least annually

Configuration Settings

- ☐ **CM-06:** Establish and document configuration settings for system components that reflect most restrictive mode consistent with operational requirements
- ☐ **CM-06:** Use United States Government Configuration Baseline (USGCB) for the applicable technology
- ☐ **CM-06:** Implement configuration settings
- ☐ **CM-06:** Identify, document, and approve any deviations from established configuration settings for organization-defined system components
- ☐ **CM-06:** Base deviations on organization-defined operational requirements
- ☐ **CM-06:** Monitor and control changes to configuration settings in accordance with organizational policies and procedures
- ☐ **CM-06(01):** Manage configuration settings for organization-defined system components using organization-defined automated mechanisms



FedRAMP Moderate Templates

- ☐ **CM-06(01):** Apply configuration settings for organization-defined system components using organization-defined automated mechanisms
- ☐ **CM-06(01):** Verify configuration settings for organization-defined system components using organization-defined automated mechanisms

Least Functionality

- ☐ **CM-07:** Configure system to provide only organization-defined mission essential capabilities
- ☐ **CM-07:** Prohibit or restrict use of organization-defined prohibited or restricted functions, system ports, protocols, software, and/or services
- ☐ **CM-07(01):** Review system at least monthly to identify unnecessary and/or nonsecure functions, ports, protocols, software, and services
- ☐ **CM-07(01):** Disable or remove organization-defined functions, ports, protocols, software, and services deemed unnecessary and/or nonsecure
- ☐ **CM-07(02):** Prevent program execution in accordance with organization-defined policies, rules of behavior, and/or access agreements regarding software program usage and restrictions
- ☐ **CM-07(02):** Prevent program execution in accordance with rules authorizing terms and conditions of software program usage
- ☐ **CM-07(05):** Identify organization-defined software programs authorized to execute on the system
- ☐ **CM-07(05):** Employ deny-all, permit-by-exception policy to allow execution of authorized software programs
- ☐ **CM-07(05):** Review and update list of authorized software programs at least annually

System Component Inventory

- ☐ **CM-08:** Develop and document inventory of system components that accurately reflects the system
- ☐ **CM-08:** Ensure inventory includes all components within the system
- ☐ **CM-08:** Ensure inventory does not include duplicate accounting of components or components assigned to any other system
- ☐ **CM-08:** Ensure inventory is at level of granularity deemed necessary for tracking and reporting



FedRAMP Moderate Templates

- ☐ **CM-08:** Include organization-defined information deemed necessary to achieve effective system component accountability
- ☐ **CM-08:** Review and update system component inventory at least monthly
- ☐ **CM-08(01):** Update inventory of system components as part of component installations, removals, and system updates
- ☐ **CM-08(03):** Detect presence of unauthorized hardware, software, and firmware components using organization-defined automated mechanisms continuously where practical, and at least monthly otherwise
- ☐ **CM-08(03):** Disable network access by unauthorized components when detected
- ☐ **CM-08(03):** Isolate unauthorized components when detected
- ☐ **CM-08(03):** Notify organization-defined personnel or roles when unauthorized components are detected

Configuration Management Plan

- ☐ **CM-09:** Develop configuration management plan that addresses roles, responsibilities, and configuration management processes and procedures
- ☐ **CM-09:** Establish process for identifying configuration items throughout system development life cycle
- ☐ **CM-09:** Establish process for managing configuration of configuration items
- ☐ **CM-09:** Define configuration items for the system
- ☐ **CM-09:** Place configuration items under configuration management
- ☐ **CM-09:** Ensure configuration management plan is reviewed and approved by organization-defined personnel or roles
- ☐ **CM-09:** Protect configuration management plan from unauthorized disclosure and modification
- ☐ **CM-09:** Document configuration management plan
- ☐ **CM-09:** Implement configuration management plan

Software Usage Restrictions

- ☐ **CM-10:** Use software and associated documentation in accordance with contract agreements and copyright laws
- ☐ **CM-10:** Track use of software and associated documentation protected by quantity licenses to control copying and distribution



FedRAMP Moderate Templates

- ☐ **CM-10:** Control and document use of peer-to-peer file sharing technology
- ☐ **CM-10:** Ensure peer-to-peer file sharing technology is not used for unauthorized distribution, display, performance, or reproduction of copyrighted work

User-Installed Software

- ☐ **CM-11:** Establish organization-defined policies governing installation of software by users
- ☐ **CM-11:** Enforce software installation policies through organization-defined methods
- ☐ **CM-11:** Monitor policy compliance at least monthly

Information Location

- ☐ **CM-12:** Identify and document location of organization-defined information and specific system components on which the information is processed and stored
- ☐ **CM-12:** Identify and document users who have access to system and system components where the information is processed and stored
- ☐ **CM-12:** Document changes to the location (i.e., system or system components) where the information is processed and stored
- ☐ **CM-12(01):** Use automated tools to identify organization-defined information by information type on organization-defined system components
- ☐ **CM-12(01):** Ensure controls are in place to protect organizational information and individual privacy through automated information location tracking

Key Timeframes Summary

- ☐ **Policy Review:** At least every 3 years or when federal/organizational policy changes occur
- ☐ **Baseline Configuration Review:** At least annually, when circumstances require, or when system components are installed or upgraded
- ☐ **Configuration Change Records Retention:** At least 1 year
- ☐ **System Review for Unnecessary Functions:** At least monthly
- ☐ **Authorized Software List Review:** At least annually
- ☐ **Component Inventory Review:** At least monthly
- ☐ **Unauthorized Component Detection:** Continuously where practical, at least monthly otherwise
- ☐ **Software Installation Policy Compliance Monitoring:** At least monthly



FedRAMP Moderate Templates

☐ **Privilege Review for Changes:** At least annually