

# NIST Cybersecurity Framework (CSF) Summary

The NIST Cybersecurity Framework (CSF) is a voluntary set of standards, best practices, and guidelines developed to help organizations manage cybersecurity risks. Initially created in 2014 to protect U.S. critical infrastructure, the CSF has evolved into a flexible framework applicable across all industries--including small businesses and large enterprises.

## Framework Components

### 1. Core

The CSF core outlines desired cybersecurity outcomes across six key functions:

- Identify: Understand and manage cybersecurity risks to systems and assets.
- Protect: Implement safeguards to ensure delivery of critical services.
- Detect: Enable timely discovery of cybersecurity events.
- Respond: Take appropriate actions regarding a detected cybersecurity event.
- Recover: Restore capabilities or services affected by cybersecurity incidents.
- Govern (added in 2024): Emphasizes leadership, accountability, and decision-making in cybersecurity risk management.

### 2. Tiers

The CSF tiers assess an organization's cybersecurity maturity on a scale from Tier 1 (Partial) to Tier 4 (Adaptive). They help organizations understand the sophistication of their practices and identify opportunities for improvement.

### 3. Profiles

CSF profiles are tailored templates developed by industry experts. They help organizations benchmark their current state against desired outcomes and create a roadmap to enhance their cybersecurity posture.

## Implementation Strategy

According to guidance from CISA (Cybersecurity and Infrastructure Security Agency), organizations should follow these steps when implementing the CSF:

1. Create a current profile: Evaluate existing security operations and business needs.
2. Perform a risk assessment: Identify gaps and determine alignment with business goals and regulations.
3. Analyze and prioritize: Focus on areas that pose the greatest risk.
4. Develop and implement an action plan: Address gaps and align with objectives.

## Key Benefits

- Applicable to any industry
- Supports compliance with regulatory requirements
- Aligns with industry best practices
- Improves visibility into cybersecurity maturity
- Helps manage financial and reputational risk