

# NIST Cybersecurity Framework October 2020

# Cybersecurity at NIST

- Role in cybersecurity began in 1972 with the development of the Data Encryption Standard
- Using widely-accepted standards helps create competitive markets around market need through combinations of price, quality, performance, and value to consumers.
  - Ensure timely availability of standards, and associated testing,;
  - Achieve cost-efficient, timely and effective solutions to legitimate regulatory, procurement and policy objectives;
  - Promote standards and standardization systems that enable innovation and foster US competitiveness; and
  - Facilitate international trade and avoid the creation of unnecessary obstacles to trade.

# Cybersecurity Framework Structures



The **Core** provides an increasingly granular set of activities and outcomes that enable an organizational dialogue about managing privacy or cybersecurity risk, based on international standards



**Profiles** are a selection of specific Functions, Categories, and Subcategories from the Core that the organization has prioritized to help it manage cybersecurity risk



**Implementation Tiers** help an organization communicate about whether it has sufficient processes and resources in place to manage cybersecurity risk and achieve its Target Profile

# Key Framework Attributes

*Principles of Current and Future Versions of the Framework*

- Common and accessible language
- It's adaptable to many technologies, lifecycle phases, sectors and uses
- It's risk-based
- It's based on standards
- It's a living document
- Guided by many perspectives – private sector, academia, public sector



# Sample Resources

[www.nist.gov/cyberframework/framework-resources](http://www.nist.gov/cyberframework/framework-resources)



## Manufacturing Profile

[NIST Discrete Manufacturing Cybersecurity Framework Profile](#)

## Financial Services Profile

*Financial Services Sector Specific Cybersecurity “Profile”*

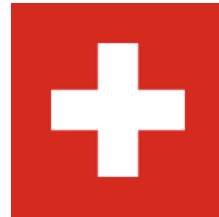
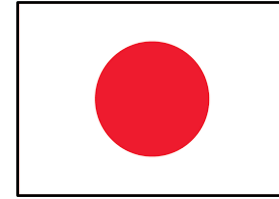
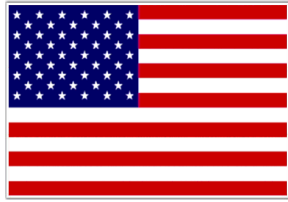


## Maritime Profile

[Bulk Liquid Transport Profile](#)

# International Use

*Some Translations and Adaptations World-Wide*



# Resources

## Website

- <https://nist.gov/cyberframework>

## Contact

- [cyberframework@nist.gov](mailto:cyberframework@nist.gov)

## Stay Up to Date

- @NISTcyber



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**Questions?**