

QUANTUM COMPUTING

Cybersecurity Compliance Timeline

2016

NIST REPORT

NIST published their "Report on Post-Quantum Cryptography" (NISTIR 8105).

NIST REQUESTS

NIST published two requests for information in the Federal Register.

JAN
2017

S.3084 LAW

The "American Innovation and Competitiveness Act" was signed into law.

DEC
2018

H.R. 6227 LAW

The "National Quantum Initiative Act" was signed into law.

OCT
2020

QUANTUM.GOV

A new digital hub was released to track and report on the steps being taken by the federal government to address quantum computing.

MAY
2022

WHITE HOUSE MEMO

The "National Security Memorandum on Promoting United States Leadership in Quantum Computing While Mitigating Risks to Vulnerable Cryptographic Systems" was released.

DEC
2022

H.R. 7535

The "Quantum Computing Cybersecurity Preparedness Act" was signed into law.

AUG
2022

CISA INSIGHTS

CISA published guidance on "Preparing Critical Infrastructure for Post-Quantum Cryptography" and a "Post-Quantum Cryptography Roadmap."

JUL
2022

NIST UPDATE

NIST announced they had selected six quantum-resistant algorithms for their upcoming standards.

MAR
2023

NATIONAL STRATEGY

The White House released a "National Cybersecurity Strategy." In the strategy, Strategic Objective 4.3 is titled "Prepare for Our Post-Quantum Future."

AUG
2023

CISA FACT SHEET

CISA partnered with the NSA and NIST to release a Quantum-Readiness Fact Sheet.

NIST PQC STANDARDS

NIST released four draft standards for PQC algorithms.

AUG
2024

NIST PQC STANDARDS

NIST released the first three finalized PQC standards:

- ML-KEM (FIPS 203)
- ML-DSA (FIPS 204)
- SLH-DSA (FIPS 205)

LATE
2024

PROJECTED: FIPS 206

NIST plans to release a draft for one additional PQC algorithm:

- FN-DSA (FIPS 206)

2035

PROJECTED: FULL MIGRATION

The White House Memo recommends transitioning to quantum-resistant cryptography technology by 2035.