

# **NIST FIPS 140-3 Update**

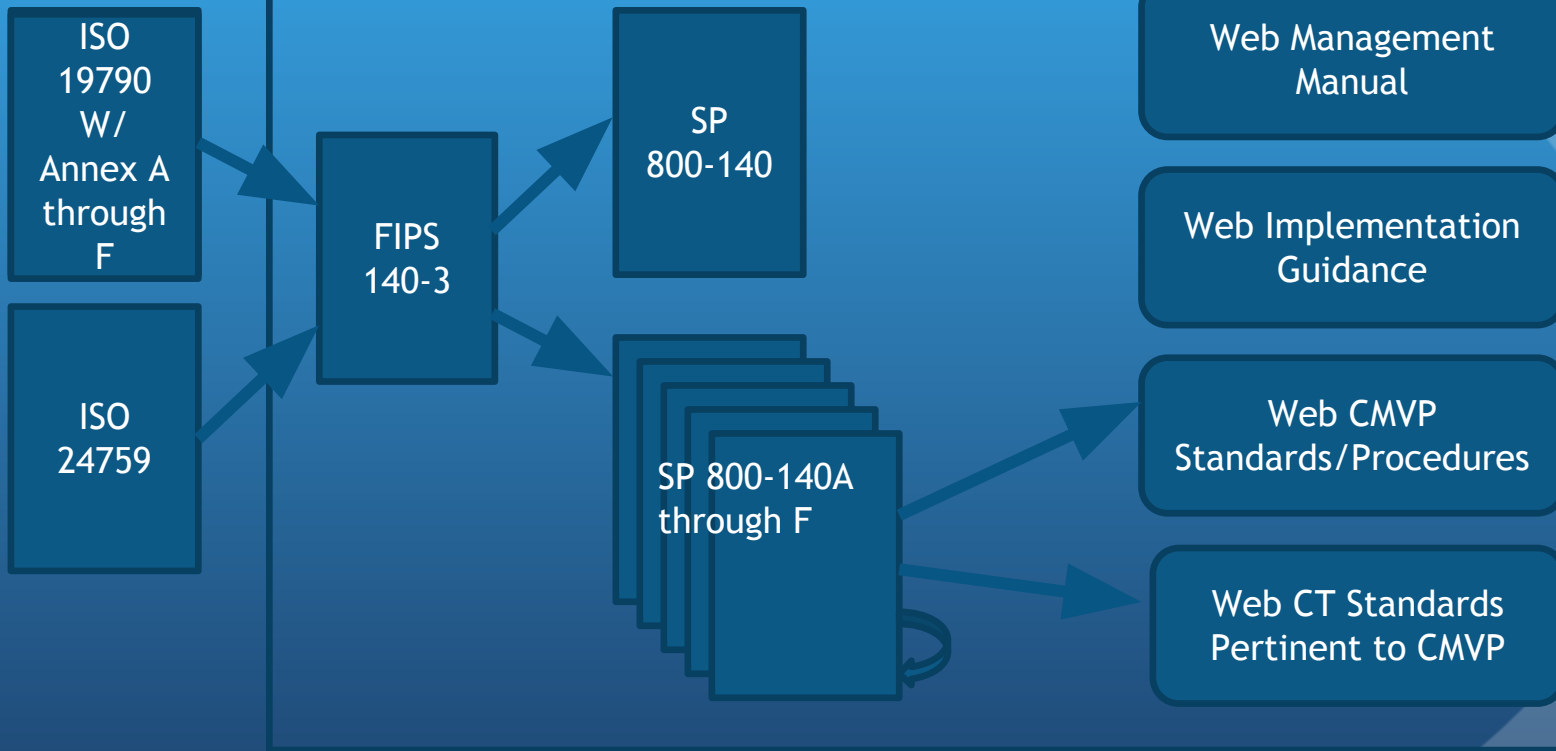
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**ICMC May 9, 2018**

# Overview

- Quick status
  - Draft documents completed NIST reviews
  - Needs Signature by the Secretary of Commerce
- Necessary Standards
  - ISO 19790 and ISO 24759
  - FIPS 140-3
  - SP 800-140 and SP 800-140A through F
  - Management Manual
  - Implementation Guidance
- Questions

## CMVP FIPS 140-3 Program Documents



# Benefits and Value

- Collaboration on Cryptographic Requirements
- Collaboratively developed Protection Profiles
  - Standards-based
  - Define baseline security functionality and test activities for COTS IT products
  - Mandated for National Security Systems (NSS)
- NIST recognition and use of ISO/IEC 19790
  - FIPS 140-3 will map to ISO/IEC 19790 *Security Requirements for Cryptographic Modules*
  - SP800-140 will map to ISO/IEC 24759 *Test Requirements for Cryptographic Modules*
- US Standards necessary to support the ISO
  - FIPS 140-3 wrapper document that will point to the ISO standard
  - FIPS 140-3 appendices A-F will point to the ISO appendices and SP800-140 A-F
  - SP800-140 (test requirements) will point to ISO 24759

# Automation

- Automated Cryptographic Validation Testing (ACVT)
- Algorithms
  - ACVT Pilot is complete
  - Development near complete - Fall 2018
  - Hybrid program until all algorithm testing uses ACVT
  - Future transition to only automated testing using the NIST ACVT service (first-party and third-party testing)
- Modules
  - Proof of concept is in progress

# Questions/Suggestion s