

**NIST Special Publication 800-140A**

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# **CMVP Documentation Requirements:**

*CMVP Validation Authority Updates to ISO/IEC 24759*

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Kim Schaffer

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**NIST**  
National Institute of  
Standards and Technology  
U.S. Department of Commerce

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*Computer Security Division  
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U.S. Department of Commerce  
*Wilbur L. Ross, Jr., Secretary*

National Institute of Standards and Technology  
*Walter Copan, NIST Director and Under Secretary for Standards and Technology*

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### Abstract

NIST Special Publication (SP) 800-140A modifies the vendor documentation requirements of ISO/IEC 19790 Annex A. As a validation authority, the Cryptographic Module Validation Program (CMVP) may modify, add, or delete Vendor Evidence (VE) and/or Test Evidence (TE) as specified under paragraph 5.2 of the ISO/IEC 19790. This document should be used in conjunction with ISO/IEC 19790 Annex A and ISO/IEC 24759 paragraph 6.13 as it modifies only those requirements identified in this document.

### Keywords

Conformance testing; Cryptographic Module Validation Program; CMVP; FIPS 140 testing; FIPS 140; ISO/IEC 19790; ISO/IEC 24759 testing requirement; vendor evidence; vendor documentation.

### Audience

This document is focused toward the vendors, testing labs, and CMVP for the purpose of addressing issues in ISO/IEC 24759, *Test requirements for cryptographic modules*.

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## 1 Scope

Federal Information Processing Standard (FIPS) 140-3 documentation requirements are specified in ISO/IEC 19790. This document specifies any additional requirements specified by the Cryptographic Module Validation Program (CMVP) for evidence that vendors provide to a Cryptographic and Security Testing Laboratory (CSTL) to demonstrate conformity. Unless otherwise modified in this document, the test requirements are specified in ISO/IEC 24759.

## 2 Normative references

This section identifies the normative references cited as ISO/IEC 19790 and ISO/IEC 24759. The specific editions to be used are ISO/IEC 19790:2012 and ISO/IEC 24759:2017. Please note that the version 19790:2012 referenced here includes the corrections made in 2015.

National Institute of Standards and Technology (2019) *Security Requirements for Cryptographic Modules*. (U.S. Department of Commerce, Washington, DC), Federal Information Processing Standards Publication (FIPS) 140-3.  
<https://doi.org/10.6028/NIST.FIPS.140-3>

## 3 Terms and definitions

The following terms and definitions supersede or are in addition to ISO/IEC 19790 and ISO/IEC 24759.

*No additional terms at this time.*

## 4 Symbols and abbreviated terms

The following symbols and abbreviated terms supersede or are in addition to ISO/IEC 19790 and ISO/IEC 24759 throughout this document:

CCCS	Canadian Centre for Cyber Security
CMVP	Cryptographic Module Validation Program
CSD	Computer Security Division
CSTL	Cryptographic and Security Testing Laboratory
FIPS	Federal Information Processing Standard
FISMA	Federal Information Security Management/Modernization Act
NIST	National Institute of Standards and Technology

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## 5 Document organization

### 5.1 General

Section 6 of this document specifies any modifications to the minimum information that vendors shall provide to testing laboratories as specified in Annex A of ISO/IEC 19790. Section 6 also addresses any modifications to 6.13 A – Documentation requirements of ISO/IEC 24759.

### 5.2 Modifications

Modifications will follow a similar format as in ISO/IEC 24759. For additions to vendor-supplied documentation, requirements will be listed by increasing the “sequence\_number.” Modifications can include a combination of additions using underline and deletions using ~~strikethrough~~. If no changes are required, the paragraph will indicate “No change.”

## 6 Security requirements

### 6.1 Documentation requirements

ISO/IEC 24759 6.13 A- and ISO/IEC 24759 Documentation requirements are modified as indicated below:

ASA.01: (Documentation – Levels 1, 2, 3, and 4)

This annex {ISO/IEC 19790 Annex A} specifies the minimum documentation which shall be required for a cryptographic module that is to undergo an independent verification scheme {and the documentation shall meet those requirements}.

Required Vendor Information

VEA.01.02: The vendor shall provide documentation for a cryptographic module that fulfils but is not limited to the minimum documentation requirements as specified in the validation authority requirement and management documentation.

Required Test Procedures

TEA.01.02: The tester shall verify that the vendor provides documentation for a cryptographic module that fulfils but is not limited to the minimum documentation requirements as specified in the validation authority requirement and management documentation.

**Document Revisions**

<b>Date</b>	<b>Change</b>