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Cryptographic Module Validation Program (CMVP)-Approved Security Functions:

CMVP Validation Authority Updates to ISO/IEC 24759

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All comments are subject to release under the Freedom of Information Act (FOIA).

Abstract

The approved security functions listed in this publication replace the ones listed in International Organization for Standardization/International Electrotechnical Commission (ISO/IEC) 19790 Annex C and ISO/IEC 24759 6.15, within the context of the Cryptographic Module Validation Program (CMVP). As a validation authority, the CMVP may supersede Annex C in its entirety. This document also supersedes SP 800-140Cr1.

Keywords

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

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Supplemental Content

See https://csrc.nist.gov/projects/cmvp/sp800-140-series-info for details about the NIST Special Publication (SP) 800-140x series publications and their relationships to ISO/IEC 19790 and ISO/IEC 24759.

Audience

This document is intended for use by vendors, testing labs, and the CMVP.

Table of Contents

1. Scope

This document specifies the Cryptographic Module Validation Program (CMVP)-approved security functions and supersedes those specified in International Organization for Standardization/International Electrotechnical Commission (ISO/IEC) 19790 Annex C and ISO/IEC 24759 paragraph 6.15. This document also supersedes SP 800-140Cr1.

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.

None 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:

CMVP
Cryptographic Module Validation Program

FIPS
Federal Information Processing Standard

ISO/IEC
International Organization for Standardization/International Electrotechnical Commission

5. Document organization

5.1. General

Section 6 of this document replaces the approved security functions of ISO/IEC 19790 Annex C and ISO/IEC 24759 paragraph 6.15. This document also supersedes SP 800-140Cr1.

5.2. Modification

This publication is a complete replacement of the approved security functions of ISO/IEC 19790 Annex C and ISO/IEC 24759 paragraph 6.15. There are no other modifications, additions, or deletions.

6. CMVP-approved security function requirements

6.1. Purpose

This document identifies CMVP-approved security functions. It precludes the use of all other security functions.

6.2. Approved security functions

For the current list of CMVP-approved security functions, see https://csrc.nist.gov/projects/cmvp/sp800-140c.

Appendix A. Document Revisions

Edition	Date	Change
Revision 1 (r1)	May 2022	**6.2 Approved security functions** Added/Modified: Security function subsection headers. Added: SP 800-90A and SP 800-90B **6.2.1 Transitions** Removed: SP 800-131Ar2 section references **6.2.3 Digital Signature** Added: SP 800-208, October 2020 **6.2.9 Other Security Functions** Added: SP 800-140Dr1, May 2022
Revision 2 (r2)	July 2023	**6.2 Approved security functions** Removed: All subsections. Added: Reference to a CMVP web link that includes the CMVP-approved security functions. Future modifications to the list will be made on that website, minimizing the need to revise this publication.