



**NIST Special Publication
NIST SP 800-140Cr2**

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

CMVP Validation Authority Updates to ISO/IEC 24759

Alexander Calis

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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.

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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.