

Information Technology Laboratory

COMPUTER SECURITY RESOURCE CENTER



PROJECTS

CRYPTOGRAPHIC MODULE VALIDATION PROGRAM

VALIDATED MODULES

SEARCH

Cryptographic Module Validation Program CMVP

Certificate #3859

Details	
Module Name Standard Status Sunset Date	Apple corecrypto User Space Module for Intel (ccv10) FIPS 140-2 Active 3/23/2026
Validation Dates Overall Level	03/24/2021 1
Caveat Security Level Exceptions	When operated in FIPS modePhysical Security: N/A
Module Type	Software
Embodiment Description	Multi-Chip Stand Alone The Apple corecrypto User Space Module for Intel (ccv10) is a software cryptographic module running on a multi-chip standalone hardware device and provides services intended to protect data in transit and at rest.
Tested Configuration(s)	 macOS Catalina 10.15 running on iMac Pro with an Intel Xeon W with PAA macOS Catalina 10.15 running on iMac Pro with an Intel Xeon W without PAA macOS Catalina 10.15 running on Mac mini with an Intel Core i5 with PAA macOS Catalina 10.15 running on Mac mini with an Intel Core i7 without PAA macOS Catalina 10.15 running on MacBook Pro with an Intel Core i7 with PAA macOS Catalina 10.15 running on MacBook Pro with an Intel Core i9 without PAA macOS Catalina 10.15 running on MacBook Pro with an Intel Core i9 with PAA macOS Catalina 10.15 running on MacBook with an Intel Core i9 without PAA macOS Catalina 10.15 running on MacBook with an Intel Core M with PAA macOS Catalina 10.15 running on MacBook with an Intel Core M without PAA (single-user mode)
FIPS Algorithms	AES Certs. # <u>A7</u> , # <u>A8</u> , # <u>A10</u> , # <u>A11</u> , # <u>A19</u> , # <u>A21</u> , # <u>A25</u> and # <u>A31</u>
	CVL Cert. #A8
	DRBG Certs. # <u>A7</u> , # <u>A8</u> , # <u>A10</u> , # <u>A21</u> , # <u>A22</u> , # <u>A27</u> , # <u>A31</u> and # <u>A33</u>
	ECDSA Certs. #A8, #A22, #A27 and #A33
	HMAC Certs. # <u>A8</u> , # <u>A22</u> , # <u>A27</u> , # <u>A29</u> and # <u>A33</u>
	KTS AES Certs. #A7, #A8, #A10, #A21 and #A31; key establishment methodology provides between 128 and 256 bits of encryption strength
	KTS vendor affirmed
	PBKDF vendor affirmed
	RSA Certs. # <u>A8</u> , # <u>A22</u> , # <u>A27</u> and # <u>A33</u>
	SHS Certs. #A8, #A22, #A27, #A29 and #A33
	Triple-DES Cert. #A8
Allowed Algorithms	Diffie-Hellman (CVL Cert. #A8, key agreement; key establishment methodology provides 112 bits of encryption strength); EC Diffie-Hellman (CVL Cert. #A8, key agreement; key establishment methodology provides 128 or 192 bits of encryption strength); MD5; NDRNG; RSA (key wrapping; key establishment methodology provides between 112 and 152 bits of encryption strength)
Software Versions	10.0
Product URL	http://www.support.apple.com/guide/sccc/welcome/web

Vendor

Apple Inc.

One Apple Park Way MS: 927-1CPS Cupertino, CA 95014

USA

Shawn Geddis security-certifications@apple.com Phone: 669-227-3579

Fiona Pattinson

security-certifications@apple.com Phone: 737-219-4141

Related Files

Security Policy Consolidated Certificate

Lab

ATSEC INFORMATION SECURITY CORP NVLAP Code: 200658-0



Webmaster | Contact Us | Our Other Offices







Contact CSRC Webmaster: webmaster-csrc@nist.gov





Want updates about CSRC and our publications? Subscribe



HEADQUARTERS 100 Bureau Drive Gaithersburg, MD 20899