

#### **COMPUTER SECURITY RESOURCE CENTER**



**PROJECTS** 

CRYPTOGRAPHIC MODULE VALIDATION PROGRAM

# **Cryptographic Module Validation Program**

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#### **Certificate #3156**

Details	
Module Name Standard Status Sunset Date Validation Dates Overall Level Caveat	Apple CoreCrypto Kernel Module v8.0 for Intel FIPS 140-2 Active 3/21/2023 3/22/2018 1 When operated in FIPS mode. The module generates cryptographic keys whose strengths are modified by available entropy
Security Level Exceptions	Physical Security: N/A
Module Type Embodiment Description Tested Configuration(s)	Software  Multi-Chip Stand Alone  The Apple CoreCrypto Kerenl Module v8.0 for Intel 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.  • macOS High Sierra 10.13 running on iMac Pro with Xeon CPU with PAA
	<ul> <li>macOS High Sierra 10.13 running on iMac Pro with Xeon CPU without PAA</li> <li>macOS High Sierra 10.13 running on Mac mini with i5 CPU with PAA</li> <li>macOS High Sierra 10.13 running on Mac mini with i5 CPU without PAA</li> <li>macOS High Sierra 10.13 running on MacBook Pro with i7 CPU with PAA</li> <li>macOS High Sierra 10.13 running on MacBook Pro with i7 CPU without PAA</li> <li>macOS High Sierra 10.13 running on MacBook with Core M CPU with PAA</li> <li>macOS High Sierra 10.13 running on MacBook with Core M CPU without PAA (single-user mode)</li> </ul>
FIPS Algorithms	AES Certs. #4985, #4986, #4987, #4988, #4989, #4990, #4991, #4992, #4993, #4994, #4995, #4996, #5054, #5055, #5056, #5057, #5063, #5065, #5071 and #5072
	DRBG Certs. #1804, #1805, #1806, #1807, #1808, #1809, #1810, #1811, #1812, #1813, #1814, #1815, #1816, #1817, #1818, #1819, #1872, #1873, #1874, #1875, #1876, #1877, #1878, #1882, #1883, #1885, #1888 and #1889
	ECDSA Certs. #1308, #1309, #1310 and #1313
	HMAC Certs. #3308, 3309, 3310, #3311, #3312, #3313, #3314, #3315, #3316, #3317, #3318, #3319, #3375, #3376, #3377 and #3382
	KTS AES Certs. #4985, #4986, #4987, #4988, #4989, #4990, #4991, #4992, #4993, #4994, #4995, #4996, #5054, #5055, #5056, #5057, #5063, #5065, #5071 and #5072; key establishment methodology provides 128 or 160 bits of encryption strength
	PBKDF vendor affirmed
	RSA Certs. #2 <u>740</u> , #2 <u>741</u> , #2 <u>742</u> and #2 <u>748</u>
	SHS Certs. #4051, #4052, #4053, #4054, #4055, #4056, #4057, #4058, #4059, #4060, #4061, #4062, #4120, #4121, #4122 and #4127
	Triple-DES Certs. #2 <u>613</u> , #2 <u>614</u> , #2 <u>615</u> and #2 <u>618</u>
Allowed Algorithms Software Versions	MD5; NDRNG; RSA (key wrapping; key establishment methodology provides 112 or 128 bits of encryption strength) 8.0

## Vendor

Product URL

## Apple Inc.

1 Infinite Loop Cupertino, CA 95014 USA

Shawn Geddis

geddis@apple.com Phone: 669-227-3579 Fax: 866-315-1954

## **Related Files**

Security Policy **Consolidated Certificate** 

#### Lab

ATSEC INFORMATION SECURITY CORP

NVLAP Code: 200658-0







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