

FIPS 140-2 Consolidated Validation Certificate



The National Institute of Standards and Technology of
the United States of America



November 2017



The Communications Security Establishment of the
Government of Canada

The National Institute of Standards and Technology, as the United States FIPS 140-2 Cryptographic Module Validation Authority; and the Communications Security Establishment, as the Canadian FIPS 140-2 Cryptographic Module Validation Authority; hereby validate the FIPS 140-2 testing results of the cryptographic modules listed below in accordance with the Derived Test Requirements for FIPS 140-2, Security Requirements for Cryptographic Modules. FIPS 140-2 specifies the security requirements that are to be satisfied by a cryptographic module utilized within a security system protecting Sensitive Information (United States) or Protected Information (Canada) within computer and telecommunications systems (including voice systems).

Products which use a cryptographic module identified below may be labeled as complying with the requirements of FIPS 140-2 so long as the product, throughout its life-cycle, continues to use the validated version of the cryptographic module as specified in this consolidated certificate. The validation report contains additional details concerning test results. No reliability test has been performed and no warranty of the products by both agencies is either expressed or implied.

FIPS 140-2 provides four increasing, qualitative levels of security: Level 1, Level 2, Level 3, and Level 4. These levels are intended to cover the wide range and potential applications and environments in which cryptographic modules may be employed. The security requirements cover eleven areas related to the secure design and implementation of a cryptographic module.

The scope of conformance achieved by the cryptographic modules as tested are identified and listed on the Cryptographic Module Validation Program website. The website listing is the official list of validated cryptographic modules. Each validation entry corresponds to a uniquely assigned certificate number. Associated with each certificate number is the module name(s), module versioning information, applicable caveats, module type, date of initial validation and applicable revisions, Overall Level, individual Levels if different than the Overall Level, FIPS-approved and other algorithms, vendor contact information, a vendor provided description and the accredited Cryptographic Module Testing laboratory which performed the testing.

Signed on behalf of the Government of the United States

Signature: Michael Cooper

Dated: 12/14/2017

Chief, Computer Security Division
National Institute of Standards and Technology

Signed on behalf of the Government of Canada

Signature: Shy Hill

Dated: 12/12/2017

Director, Architecture and Technology Assurance
Communications Security Establishment

Certificate Number	Validation / Posting Date	Module Name(s)	Vendor Name	Version Information
3056	11/02/2017	TRANSEC Module	VT iDirect, Inc.	Hardware Version: E0002268; Firmware Version: Cloak 1.0.2.0
3057	11/07/2017	IBM(R) z/OS(R) Version 2 Release 2 System SSL Cryptographic Module	IBM Corporation	Software Version: HCPT420/JCPT421 with APAR OA52653; Hardware Version: COP chips integrated within processor unit; Firmware Version: Feature 3863 (aka FC3863) with System Driver Level 27I
3058	11/07/2017	Huawei USG 9520/9560/9580 Firewall	Huawei Technologies Co., Ltd.	Hardware Version: Base Models: USG9520 (P/N 02350FRU Rev D.2) [1], USG9560 (P/N 02350FRW Rev D.2) [2] and USG9580 (P/N 02350FRX Rev D.2) [3]; SPU/SPC cards: SPU-X3-B (P/N 03056640) [1, 2, 3], SPU-X3-B2 (P/N 03056989) [1, 2, 3], SPU-X8X16-B (P/N 03056638) [1, 2, 3], SPC-20-O-E8KE (P/N 03056636) [1, 2, 3], SPU-X3-20-O-E8KE (P/N 03056634) [1, 2, 3], SPU-X8X16-20-O-E8KE (P/N 03056635) [1, 2, 3], SPC-APPSEC-FW (P/N 03056688) [1, 2, 3], SPUA-20-O-H (P/N 03057426) [1, 2, 3], SPUA-20-O-M (P/N 03057427) [1, 2, 3], SPCA-20-O-H&M (P/N 03057429) [1, 2, 3], SPUB-20-O-H (P/N 03057520) [1, 2, 3], SPUB-20-O-M (P/N 03057518) [1, 2, 3], SPCB-20-O-H&M (P/N 03057522) [1, 2, 3]; External Baffle: 99089JEB, Version A.2 [1, 3]; Tamper Seal 4057-113016, Version A.3 [1, 2, 3]; Firmware Version: V500R001C50
3059	11/09/2017	Atalla Cryptographic Subsystem (ACS)	Micro Focus	Hardware Version: C9B60-2101A; Firmware Version: Loader Version 1.20, PSMCU Versions 0.95 or 0.96, CMS-OCT Version 0.95, CMS-NTX Version 0.95
3060	11/09/2017	CommVault Crypto Library	CommVault Systems, Inc.	Software Version: 2.0
3061	11/10/2017	HGST Ultrastar SS200 TCG Enterprise SSD	HGST, a Western Digital brand	Hardware Version: P/Ns SDLL1HLR-076T Version 1, SDLL1MLR-038T Version 1, SDLL1CLR-020T Version 1 and SDLL1DLR-920G Version 1; Firmware Version: XC00
3062	11/14/2017	MVC201	MikroM GmbH	Hardware Version: MVC201-IS1 rev.1.1, MVC201-IF1 rev.1.1, MVC201-MS1 rev.1.1, MVC201-MF1 rev.1.1, MVC201-RS1 rev.1.1 and MVC201-RS2 rev.1.1; Firmware Version: 1.23.157.20779; Bootloader Version 1.3.7.18217
3063	11/14/2017	Red Hat Enterprise Linux OpenSSH Server Cryptographic Module	Red Hat(R), Inc.	Software Version: 5.0
3064	11/14/2017	IBM(R) Crypto for C	IBM(R) Corporation	Software Version: 8.6.0.0
3065	11/15/2017	Trusted Platform Module ST33TPHF20SPI & ST33TPHF20I2C	STMicroelectronics	Hardware Version: ST33HTPH2E28AAF0 [1,3], ST33HTPH2E32AAF0 [1,3], ST33HTPH2E28AAF1 [1,3], ST33HTPH2E32AAF1 [1,3], ST33HTPH2028AAF3 [2,4], ST33HTPH2032AAF3 [2,4], ST33HTPH2E28AHB3 [3], ST33HTPH2E32AHB3 [3], ST33HTPH2E28AHB4 [3], ST33HTPH2E32AHB4 [3], ST33HTPH2E28AHB7 [5], ST33HTPH2E32AHB7 [5], ST33HTPH2E28AHB8 [5], ST33HTPH2E32AHB8 [5], ST33HTPH2028AHB9 [6] and ST33HTPH2032AHB9 [6]; Firmware Version: 49.00 [1], 4A.00 [2], 49.04 [3], 4A.04 [4], 49.05 [5] and 4A.05 [6]

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3066	11/15/2017	Trusted Platform Module ST33TPHF2ESPI & ST33TPHF2EI2C	STMicroelectronics	Hardware Version: ST33HTPH2E28AAF0 [1,2], ST33HTPH2E32AAF0 [1,2], ST33HTPH2E28AAF1 [1,2], ST33HTPH2E32AAF1 [1,2], ST33HTPH2E28AHB3 [2], ST33HTPH2E32AHB3 [2], ST33HTPH2E28AHB4 [2], ST33HTPH2E32AHB4 [2], ST33HTPH2E28AHB7 [3], ST33HTPH2E32AHB7 [3], ST33HTPH2E28AHB8 [3] and ST33HTPH2E32AHB8 [3]; Firmware Version: 49.00 [1], 49.04 [2] and 49.05 [3]
3067	11/27/2017	Red Hat Enterprise Linux OpenSSH Client Cryptographic Module	Red Hat(R), Inc.	Software Version: 5.0
3068	11/27/2017	NetBrain OpenSSL Cryptographic Module	NetBrain Technologies, Inc.	Software Version: 1.0
3069	11/27/2017	Aruba IAP-214, IAP-215, IAP-224, IAP-225, IAP-274, IAP-275, IAP- 277, RAP-108 and RAP-109 Wireless Access Points with Aruba Instant Firmware	Aruba, a Hewlett Packard Enterprise company	Firmware Version: ArubaInstant 6.5.1.0-4.3.1