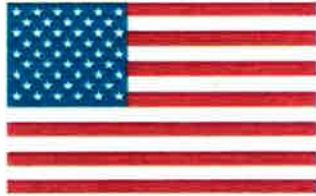


# FIPS 140-2 Consolidated Validation Certificate



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



The Communications Security Establishment of the Government of Canada

## Consolidated Certificate No. 0050

The National Institute of Standards and Technology, as the United States FIPS 140-2 Cryptographic Module Validation Authority; and the Communications Security Establishment Canada, 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 J. Cooper  
Dated: 3/3/2015

Chief, Computer Security Division  
National Institute of Standards and Technology

Signed on behalf of the Government of Canada

Signature: [Signature]  
Dated: March 3<sup>rd</sup>, 2015

Director, Architecture and Technology Assurance  
Communications Security Establishment Canada

TM A Certification Mark of NIST, which does not imply product endorsement by NIST the U.S. or Canadian Governments

Certificate Number	Validation / Posting Date	Module Name(s)	Vendor Name	Version Information
2322	02/02/2015	VDX 6710, VDX 6720, VDX 6730, VDX 6740, VDX 6740T and VDX 8770 Switches	Brocade Communications Systems, Inc.	Hardware Versions: [BR-VDX8770-4-BND-AC, BR-VDX8770-4-BND-DC, BR-VDX8770-8-BND-AC, BR-VDX8770-8-BND-DC] w/ Field Replaceable Units (80-1006540-01, 80-1006539-02, 80-1006430-01, 80-1006080-01, 80-1006295-01, 80-1006294-02, 80-1006049-02, 80-1006293-02, 80-1006048-02, 80-1006431-01 & 80-1006429-01) BR-VDX6710-54-F, BR-VDX6710-54-R, BR-VDX6720-16-F (80-1004566-07 & 80-1006701-02) BR-VDX6720-16-R (80-1004567-07 & 80-1006702-02) BR-VDX6720-24-F (80-1004564-07 & 80-1006699-02) BR-VDX6720-24-R (80-1004565-07 & 80-1006700-02) BR-VDX6720-40-F (80-1004570-07 & 80-1006305-02) BR-VDX6720-40-R (80-1004571-07 & 80-1006306-02) BR-VDX6720-60-F (80-1004568-07 & 80-1006303-02) BR-VDX6720-60-R (80-1004569-07 & 80-1006304-02) BR-VDX6730-16-F (80-1005649-03 & 80-1006709-02) BR-VDX6730-16-R (80-1005651-03 & 80-1006711-02) BR-VDX6730-24-F (80-1005648-03 & 80-1006708-02) BR-VDX6730-24-R (80-1005650-03 & 80-1006710-02) BR-VDX6730-32-FCOE-F (BR-VDX6730-24-F w/ BR-VDX6730-24VCS-01 & BR-VDX6730-24FCOE-01 Lic) BR-VDX6730-32-FCOE-R (BR-VDX6730-24-R w/ BR-VDX6730-24VCS-01 & BR-VDX6730-24FCOE-01 Lic) BR-VDX6730-40-F (80-1005680-03 & 80-1006719-02) BR-VDX6730-40-R (80-1005681-03 & 80-1006720-02) BR-VDX6730-60-F (80-1005679-03 & 80-1006718-02) BR-VDX6730-60-

Certificate Number	Validation / Posting Date	Module Name(s)	Vendor Name	Version Information
				R (80-1005678-03 & 80-1006717-02) BR-VDX6730-76-FCOE-F (BR-VDX6730-60-F w/ BR-VDX6730-60VCS-01 & BR-VDX6730-60FCOE-01 Lic) BR-VDX6730-76-FCOE-R (BR-VDX6730-60-R w/ BR-VDX6730-60VCS-01 & BR-VDX6730-60FCOE-01 Lic) BR-VDX6740-24-F, BR-VDX6740-24-R, BR-VDX6740-48-F, BR-VDX6740-48-R, BR-VDX6740-64-ALLSW-F, BR-VDX6740-64-ALLSW-R, BR-VDX6740T-24-F, BR-VDX6740T-24-R, BR-VDX6740T-48-F, BR-VDX6740T-48-R, BR-VDX6740T-64-ALLSW-F & BR-VDX6740T-64-ALLSW-R w/ FIPS Kit P/N Brocade XBR-000195; Firmware Version: Network OS (NOS) v4.0.0 (P/N 63-1001271-01)

Certificate Number	Validation / Posting Date	Module Name(s)	Vendor Name	Version Information
2323	02/05/2015	PA-200, PA-500, PA-2000 Series, PA-3000 Series, PA-4000 Series, PA-5000 Series and PA-7050 Firewalls	Palo Alto Networks	Hardware Versions: PA-200 P/N 910-000015-00E Rev. E [1], PA-500 P/N 910-000006-00O Rev. O [2], PA-500-2GB P/N 910-000094-00O Rev. O [2], PA-2020 P/N 910-000004-00Z Rev. Z [3], PA-2050 P/N 910-000003-00Z Rev. Z [3], PA-3020 P/N 910-000017-00J Rev. J [4], PA-3050 P/N 910-000016-00J Rev. J [4], PA-4020 P/N 910-000002-00AB Rev. AB [5], PA-4050 P/N 910-000001-00AB Rev. AB [5], PA-4060 P/N 910-000005-00S Rev. S [5], PA-5020 P/N 910-000010-00F Rev. F [6], PA-5050 P/N 910-000009-00F Rev. F [6], PA-5060 P/N 910-000008-00F Rev. F [6] and PA-7050 P/N 910-000102-00B with 910-000028-00B Rev. B [7]; FIPS Kit P/Ns: 920-000084-00A Rev. A [1], 920-000005-00A Rev. A [2], 920-000004-00A Rev. A [3], 920-000081-00A Rev. A [4], 920-000003-00A Rev. A [5], 920-000037-00A Rev. A [6] and 920-000119-00A Rev. A [7]; Firmware Version: 6.0.3
2324	02/06/2015	CCA-685 Secure Router	Curtiss-Wright	Hardware Version: CCA-685-C2820; Firmware Version: 2.1
2325	02/06/2015	Aspen	Sony Corporation	Hardware Version: 2.0.0; Firmware Version: 1.3.0

Certificate Number	Validation / Posting Date	Module Name(s)	Vendor Name	Version Information
2326	02/10/2015	HGST Ultrastar C10K1800 TCG Enterprise HDDs	HGST, Inc.	Hardware Versions: HUC101818CS4205 [1], HUC101812CS4205 [1], HUC101890CS4205 [1], HUC101860CS4205 [1], HUC101845CS4205 [1], HUC101812CSS205 [1], HUC101890CSS205 [1], HUC101860CSS205 [1], HUC101830CSS205 [1]; Firmware Version: R1A0 or R3B0
2327	02/10/2015	Sm@rtCafé Expert 7.0	Giesecke & Devrient	Hardware Version: SLE78CLFX4000P(M) M7892; Firmware Version: Sm@rtCafé Expert 7.0, Demonstration Applet V1.0
2328	02/10/2015	Fusion Wireless LAN Cryptographic Module for WM/CE	Zebra Technologies Corporation	Hardware Versions: P/Ns WL1283CYFVR (Rev C), WL1273LYFVR, WL1273BYFVR, WL1271BYFVR, WL1270BYFVR; Software Version: X_2.02.0.0.4; Firmware Version: 1.01