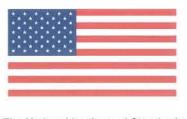
FIPS 140-2 Validation Certificate



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





Certificate No. 966

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 Module identified as:

nShield F3 500, nShield F3 500 for NetHSM and nShield F3 10 PCI by nCipher Corporation Ltd. (When operated in FIPS mode)

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 the above identified cryptographic module 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 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.

This certificate includes details on the scope of conformance and validation authority signatures on the reverse.

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 in the product identified as:

nShield F3 500, nShield F3 500 for NetHSM and nShield F3 10 PCI by nCipher Corporation Ltd. (Hardware Versions: nC4033P-500, nC4033P-500N and nC4033P-10; Build Standard N; Firmware Version: 2.33.60-3; Hardware)

and tested by the Cryptographic Module Testing accredited laboratory:		DOMUS IT Security Laboratory, NVLAP Lab Code 200017-0 CRYPTIK Version 7.0	
is as follows:			
Cryptographic Module Specification:	Level 3	Cryptographic Module Ports and Interfaces:	Level 3
Roles, Services, and Authentication:	Level 3	Finite State Model:	Level 3
Physical Security: (Multi-Chip Embedded) EMI/EMC:	Level 3	Cryptographic Key Management:	Level 3
	Level 3	Self-Tests:	Level 3
Design Assurance:	Level 3	Mitigation of Other Attacks:	Level N/A
Operational Environment:	Level N/A	tested in the following configuration(s): N/A	
The following FIPS approved Cryptograp	#570); Triple-DES	Cert. #599); AES GCM (Cert. #599, vendor affirmed MAC (Triple-DES Cert. #570, vendor affirmed); DSA ert. #648); HMAC (Cert. #309); RSA (Cert. #274); RN	(Cert. #233); ECDSA
HMAC-MD5; HMAC-Tiger; HMAC-RIPE establishment methodology provides methodology provides 192 bits of end	MD160; RIPEMD 160; Tiger; El- between 80 and 256 bits of encr ryption strength); RSA (key wra	d algorithms: ARC FOUR; Aria; Camelia; CAST 6; Gamal; KCDSA; HAS 160; Diffie-Hellman (key agree tyption strength); EC Diffie-Hellman (key agreemen pping; key establishment methodology provides be nethodology provides between 80 and 256 bits of e	ement; key t; key establishment etween 80 and 256 bits
	Overall Level	Achieved: 3	
Signed on behalf of the Government of the United States		Signed on behalf of the Government of Canada	
Signature: MMgm Hanker		Signature:	
Dated: 15, 2008		Dated: July 2, 2008	
Chief, Computer Security Division National Institute of Standards and Technology		Director, Industry Program Group	