FIPS 140-2 Validation Certificate



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





The Communications Security
Establishment of the Government
of Canada

Certificate No. 1012

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:

Windows Server 2003 Enhanced Cryptographic Provider (RSAENH) by Microsoft Corporation

(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:

Windows Server 2003 Enhanced Cryptographic Provider (RSAENH) by Microsoft Corporation (Software Version: 5.2.3790.4313; Software)

(Software Version: 5.2.3790.4313; Software)					
and tested by the Cryptographic Module Testing accredited laboratory: is as follows:		Atlan Laboratories, NVLAP Lab Code 200492-0 CRYPTIK Version 7.0			
Cryptographic Module Specification:	Level 1	Cryptographi	ic Module Ports and Interfaces:	Level 1	
Roles, Services, and Authentication:	Level 1	Finite State I	Model:	Level 1	
Physical Security: (Multi-Chip Standalone) EMI/EMC:	Level 1	Cryptographi	Cryptographic Key Management: Level 1		
	Level 1	Self-Tests: Level 1		Level 1	
Design Assurance:	Level 1	Mitigation of	Other Attacks:	Level N/A	
Operational Environment:	Level 1	tested in the		ws Server 2003 Service 2 (x86, x64 and IA64) -user mode)	
The following FIPS approved Cryptogra			IAC (Cert. #452); RNG (Cert. #470); ple-DES (Cert. #691)	; RSA (Cert. #395);	
The cryptographic module also contains	the following non-FIPS approve	ed algorithms:	DES; RC2; RC4; MD2; MD4; MD5 verification (non-compliant); RS establishment methodology pro 256 bits of encryption strength)	A (key wrapping; key	

Overall Level Achieved: 1

Signed on behalf of the Government of the United States	Signed on behalf of the Government of Canada
Signature: Dona F Rhoben R W Borke	Signature:
Dated: Angre 1-22, 2008	Dated: August 19, 2008
Chief, Computer Security Division National Institute of Standards and Technology	Director, Industry Program Group Communications Security Establishment Canada