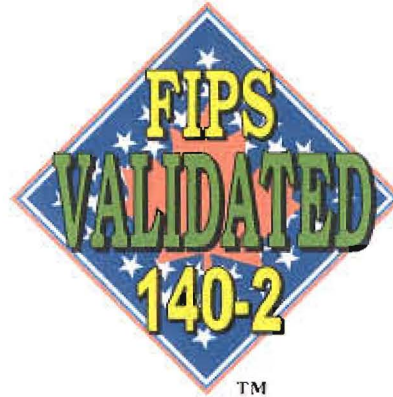


FIPS 140-2 Validation Certificate



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



The Communications Security
Establishment of the Government
of Canada

Certificate No. 1097

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:

NitroGuard IPS cryptographic module by NitroSecurity Inc.
(When operated in FIPS mode with module OpenSSL FIPS Object Module validated to FIPS 140-2
under Cert. #918 operating 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:

NitroGuard IPS cryptographic module by NitroSecurity Inc.

(Hardware Versions: NS-IPS-620R-4C-B, NS-IPS-1220R-6C-B, NS-IPS-1220R-4C-2F-B, NS-IPS-620R-4C-BFS, NS-IPS-4245-R-4BTX, NS-IPS-4245-R-4BSX; Software Version: 8.0.0.20080605; Hardware)

and tested by the Cryptographic Module Testing accredited laboratory:
is as follows:

SAIC CSTL, NVLAP Lab Code 200427-0
CRYPTIK Version 7.0

<i>Cryptographic Module Specification:</i>	Level 2	<i>Cryptographic Module Ports and Interfaces:</i>	Level 2
<i>Roles, Services, and Authentication:</i>	Level 2	<i>Finite State Model:</i>	Level 2
<i>Physical Security:</i> <i>(Multi-Chip Standalone)</i>	Level 2	<i>Cryptographic Key Management:</i>	Level 2
<i>EMI/EMC:</i>	Level 2	<i>Self-Tests:</i>	Level 2
<i>Design Assurance:</i>	Level 2	<i>Mitigation of Other Attacks:</i>	Level N/A
<i>Operational Environment:</i>	Level N/A	<i>tested in the following configuration(s):</i>	N/A

The following FIPS approved Cryptographic Algorithms are used: **AES (Cert. #668); Triple-DES (Cert. #613); SHS (Cert. #701); HMAC (Cert. #352); RNG (Cert. #387); RSA (Cert. #310)**

The cryptographic module also contains the following non-FIPS approved algorithms: **Diffie-Hellman (key agreement; key establishment methodology provides 112 bits of encryption strength)**

Overall Level Achieved: 2

Signed on behalf of the Government of the United States

Signature: William Barker

Dated: March 10, 2009

Chief, Computer Security Division
National Institute of Standards and Technology

Signed on behalf of the Government of Canada

Signature: Doris Landerille

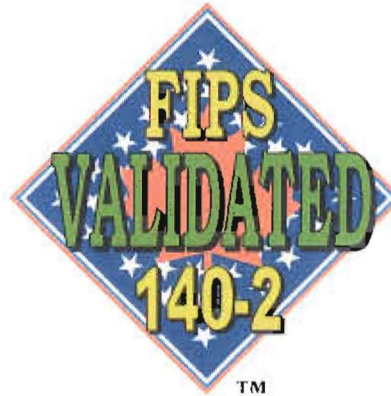
Dated: 5 March 2009

AL
Director, Industry Program Group
Communications Security Establishment Canada

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. 1098

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:

FortiGate-3016B, FortiGate-3600A and FortiGate-3810A-E4 by Fortinet Inc.
(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:

FortiGate-3016B, FortiGate-3600A and FortiGate-3810A-E4 by Fortinet Inc.
(Hardware Versions: C4XA14, V3BU94 and C3GV75; Firmware Version: FortiOS 3.00, build8785, 080605; Hardware)

and tested by the Cryptographic Module Testing accredited laboratory:
is as follows:

DOMUS IT Security Laboratory, NVLAP Lab Code 200017-0
CRYPTIK Version 7.0

<i>Cryptographic Module Specification:</i>	Level 2	<i>Cryptographic Module Ports and Interfaces:</i>	Level 3
<i>Roles, Services, and Authentication:</i>	Level 3	<i>Finite State Model:</i>	Level 2
<i>Physical Security:</i> <i>(Multi-Chip Standalone)</i>	Level 2	<i>Cryptographic Key Management:</i>	Level 2
<i>EMI/EMC:</i>	Level 2	<i>Self-Tests:</i>	Level 2
<i>Design Assurance:</i>	Level 3	<i>Mitigation of Other Attacks:</i>	Level 2
<i>Operational Environment:</i>	Level N/A	<i>tested in the following configuration(s):</i>	N/A

The following FIPS approved Cryptographic Algorithms are used: **AES (Certs. #612, #613 and #614); Triple-DES (Certs. #582, #583 and #584); RNG (Cert. #345); SHS (Certs. #660, #661 and #662); HMAC (Certs. #315, #316 and #317); RSA (Certs. #284 and #285)**

The cryptographic module also contains the following non-FIPS approved algorithms: **Diffie-Hellman (key agreement; key establishment methodology provides between 80 and 201 bits of encryption strength; non-compliant less than 80 bits of encryption strength); RSA (key wrapping; key establishment method provides 112 bits of encryption strength); DES; MD5; HMAC-MD5**

Overall Level Achieved: 2

Signed on behalf of the Government of the United States

Signature: William C. Barker

Dated: March 10, 2009

Chief, Computer Security Division
National Institute of Standards and Technology

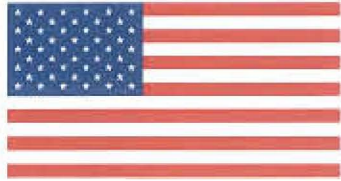
Signed on behalf of the Government of Canada

Signature: Rous Landonville

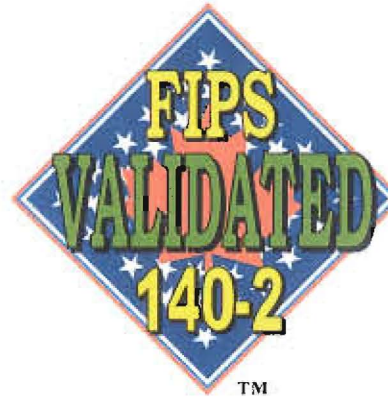
Dated: 4 March 2009

A/
Director, Industry Program Group
Communications Security Establishment Canada

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. 1099

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:

Gemalto .NET Smart Card by Gemalto

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:

Gemalto .NET Smart Card by Gemalto
**(Hardware Version: Infineon SLE 88CFX4000P; Firmware Versions: .Net Platform and Content Manager v2.2;
FIPS Assembly v1.1; FIPS Access Manager v1.0; Hardware)**

and tested by the Cryptographic Module Testing accredited laboratory:
is as follows:

*InfoGard Laboratories, Inc., NVLAP Lab Code 100432-0
CRYPTIK Version 7.0*

<i>Cryptographic Module Specification:</i>	Level 3	<i>Cryptographic Module Ports and Interfaces:</i>	Level 3
<i>Roles, Services, and Authentication:</i>	Level 3	<i>Finite State Model:</i>	Level 3
<i>Physical Security: (Single Chip)</i>	Level 3	<i>Cryptographic Key Management:</i>	Level 3
<i>EMI/EMC:</i>	Level 3	<i>Self-Tests:</i>	Level 3
<i>Design Assurance:</i>	Level 3	<i>Mitigation of Other Attacks:</i>	Level 3
<i>Operational Environment:</i>	Level N/A	<i>tested in the following configuration(s):</i>	N/A

The following FIPS approved Cryptographic Algorithms are used: **Triple-DES (Cert. #719); AES (Cert. #877); RNG (Cert. #503);
RSA (Cert. #424); SHS (Cert. #869); HMAC (Cert. #491)**

The cryptographic module also contains the following non-FIPS approved algorithms: **AES (key wrapping; key establishment methodology provides 192 bits of encryption strength); RSA (key wrapping; key establishment methodology provides 80 or 112 bits of encryption strength)**

Overall Level Achieved: 3

Signed on behalf of the Government of the United States

Signature: *William Barker*

Dated: *March 10, 2009*

Chief, Computer Security Division
National Institute of Standards and Technology

Signed on behalf of the Government of Canada

Signature: *Doris Lenderelle*

Dated: *4 March 2009*

A/ Director, Industry Program Group
Communications Security Establishment Canada