## Advanced Encryption Standard Algorithm Validation Certificate

Certificate No. 405

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

The Communications Security
Establishment
of the
Government of Canada

The National Institute of Standards and Technology (NIST) and the Communications Security Establishment (CSE) hereby validate the Advanced Encryption Standard (AES) algorithm testing results of the implementation identified as:

## SG-SYSTEM II, Version 1.00 (Firmware)

and supplied by:

# Digital Security Controls, a Division of Tyco Safety Products Canada Ltd.

of Operation (SP800-38A 2001 ED) as indicated on the reverse of this certificate. Implementations bearing the same identification and manufactured to the same specifications as the validated implementation may be labeled as complying with FIPS 197 for the modes, states, and key sizes identified in this certificate. No reliability test has been performed and no warranty of the implementation is either expressed or implied. in accordance with the specifications of the Advanced Encryption Standard (AES) (FIPS 197) and Recommendations for Block Cipher Modes

implementations, operating environment is not applicable): includes processor and operating system; for firmware implementations, operating environment includes processor only; for hardware The validated implementation was tested using the following operating environment (for software implementations, operating environment

#### Freescale MPC885

The vendor should be contacted to obtain a list of operating environments that support the validated implementation. Likewise, the vendor should be contacted to obtain a list of products/applications that use the validated implementation.

This certificate must include the following page that details the scope of conformance and includes the validation authorities' signatures

NIST Special Publication 800-38A 2001 ED, Recommendation for Block Cipher Modes of Operation. The scope of conformance achieved by the block message and Monte Carlo tests for implementations of FIPS 197. Advanced Encryption Standard, using modes of operation specified in The NIST document, "The Advanced Encryption Standard Algorithm Validation Suite (AESAVS)" describes a series of known answer, multialgorithm implementation identified as:

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EWA-Canada LTD, IT Security Evaluation Facility **NVLAP Lab Code 200556-0** and tested by the accredited Cryptographic Module Testing laboratory:

CAVS Version 5.0

is as follows. The validated implementation performs AES in the following modes of operation, states, and key sizes:

Mode(s) of Operation
Electronic Codebook (ECB)

State(s)

Key Size(s)

128

Encrypt/Decrypt

Signed on behalf of the Government of the United States

Signature:

Date:

Acting Director, Computer Security Division

National Institute of Standards and Technology

Rev. 04/2006

Signed on behalf of the Government of Canada

Signature:

Date:

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Director, Industry Program Group

Communications Security Establishment