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. 636

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:

Aspects Software OS755 for Renesas XMobile Card Module by Renesas Technology 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:

			Renesas Technology Corporation : OS755 Version 2.4.6; Hardware)	
and tested by the Cryptographic Module Testing accredited laboratory:			InfoGard Laboratories, Inc., NVLAP Lab Code 100432-0 CRYPTIK Version 6.0	
is as follows: Cryptographic Module Specification:	Level 3	Cryptograp	hic Module Ports and Interfaces:	Level 3
Roles, Services, and Authentication:	Level 3	Finite State	Model:	Level 3
Physical Security: (Single Chip) EMI/EMC:	Level 3	Cryptograp	hic Key Management:	Level 3
	Level 3	Self-Tests:		Level 3
Design Assurance:	Level 3	Mitigation o	of Other Attacks:	Level 3
Operational Environment:	Level N/A	tested in th	e following configuration(s):	N/A
The following FIPS approved Cryptographi	c Algorithms are used:	DES MAC (transitio vendor affirmed); T	hase only - valid until May 19, 2007; Co nal phase only - valid until May 19, 20 riple-DES (Cert. #327); Triple-DES MAG NG (Cert. #75); RSA (Cert. #57); SHS (07; Cert. #305; C (Cert. #327;
The cryptographic module also contains th	e following non-FIPS ap	oproved algorithms:	Raw RSA; RSA cipher only with ISO9 DES (with ISO9797 m1/m2 padding; r Triple-DES (with ISO9797 m1/m2 pad	non-compliant);
	Overall L	evel Achieved:	3	

Signed on behalf of the Government of the United States	Signed on behalf of the Government of Canada		
Signature: Joseph Jask	Signature:		
Dated: 03/15/2006	Dated:		
Chief, Computer Security Division National Institute of Standards and Technology	Director, Industry Program Group Communications Security Establishment		