

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





The Communications Security
Establishment of the Government
of Canada

Certificate No. 1036

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:

Cisco 1841 Integrated Services Routers with AIM-VPN/BPII-Plus and Cisco 2801 Integrated Services Routers with AIM-VPN/EPII-Plus by Cisco Systems, 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.

Cisco 1841 Integrated Services Routers with AIM-VPN/BPII-Plus and Cisco 2801 Integrated Services Routers with AIM-VPN/EPII-Plus by Cisco Systems, Inc.

(Hardware Versions: 1841 and 2801; AIM-VPN/BPII-Plus Version: 1.0, Board Version: C1; AIM-VPN/EPII-Plus Version: 1.0, Board Version: D0; Firmware Version: 12.4(15)T3; Hardware)

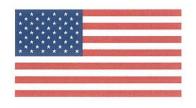
and tested by the Cryptographic Module Testing accredited laboratis as follows:		Atlan Laboratories, NVLAP Lab Code 200492-0 ry: CRYPTIK Version 7.0		
	Laval O	Currento ausorabio Mandudo Pouta and Intento con	Laural O	
Cryptographic Module Specification:	Level 2	Cryptographic Module Ports and Interfaces:	Level 2	
Roles, Services, and Authentication:	Level 2	Finite State Model:	Level 2	
Physical Security:	Level 2	Cryptographic Key Management:	Level 2	
(Multi-Chip Standalone) EMI/EMC:	Level 2	Self-Tests:	Level 2	
Design Assurance:	Level 2	Mitigation of Other Attacks:	Level N/A	
Operational Environment:	Level N/A	tested in the following configuration(s): N/A		
The following FIPS approved Cryptographic Algorithms are used:		AES (Certs. #100, #181 and #795); HMAC (Certs. #27, #38 and #436); RNG (Certs. #80 and #456); RSA (Certs. #379 and #383); SHS (Certs. #267, #401		

The cryptographic module also contains the following non-FIPS approved algorithms: Diffie-Hellman (key agreement; key establishment methodology provides 80 or 96 bits of encryption strength); RSA (key wrapping; key establishment methodology provides between 80 and 112 bits of encryption strength); MD5; HMAC-MD5; RC4; DES

and #794); Triple-DES (Certs. #213, #283 and #683)

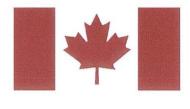
Overall Level Achieved: 2

Signed on behalf of the Government of the United States	Signed on behalf of the Government of Canada	
Signature: William CRanker	Signature:	
Dated: October 14, 2008	Dated: October 3, 2,008	
Chief, Computer Security Division National Institute of Standards and Technology	Director, Industry Program Group Communications Security Establishment Canad	



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





The Communications Security
Establishment of the Government
of Canada

Certificate No. 1037

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:

Cisco 1841 and Cisco 2801 Integrated Services Routers by Cisco Systems, 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.

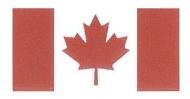
Cisco 1841 and Cisco 2801 Integrated Services Routers by Cisco Systems, Inc. (Hardware Versions: 1841 and 2801; Firmware Version: 12.4(15)T3; Hardware)

(770707070				
and tested by the Cryptographic Module Testing accredited laboratory:		Atlan Laboratories, NVLAP Lab Code 200492-0 CRYPTIK Version 7.0		
is as follows:				
Cryptographic Module Specification:	Level 2	Cryptographi	c Module Ports and Interfaces:	Level 2
Roles, Services, and Authentication:	Level 2	Finite State N	Model:	Level 2
Physical Security:	Level 2	Cryptographic Key Management:		Level 2
(Multi-Chip Standalone) EMI/EMC:	Level 2	Self-Tests:		Level 2
Design Assurance:	Level 2	Mitigation of	Other Attacks:	Level N/A
Operational Environment:	Level N/A	tested in the	following configuration(s): N/A	
The following FIPS approved Cryptographic			H #795); HMAC (Certs. #27 and #436); F S (Certs. #267 and #794); Triple-DES (
The cryptographic module also contains the	following non-FIPS approved	d algorithms:	Diffie-Hellman (key agreement; key e methodology provides 80 or 96 bits strength); RSA (key wrapping; key e methodology provides between 80 a encryption strength); MD5; HMAC-M	of encryption stablishment and 112 bits of
	Overall Level A	Achieved: 2	?	
Signed on behalf of the Government of the United States Signature: **Dated: October 14, 2008**		Signed on behalf of the Government of Canada		
		Signature: Can 7		
		Dated: October 3, 2008		
Chief, Computer Security Division National Institute of Standards and Technology		Director, Industry Program Group Communications Security Establishment Canada		



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





The Communications Security
Establishment of the Government
of Canada

Certificate No. 1038

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:

Cisco 2811 and Cisco 2821 Integrated Services Routers by Cisco Systems, 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.

Cisco 2811 and Cisco 2821 Integrated Services Routers by Cisco Systems, Inc. (Hardware Versions: 2811 and 2821; Firmware Version: 12.4(15)T3; Hardware)

(Haraware	versions. Zorr and Zozr, i in	iiware version.	. 12.4(10)15, Hardware)	
and tested by the Cryptographic Module Testing accredited laboratory:		Atlan Labora CRYPTIK Vei	tories, NVLAP Lab Code 200492-0 rsion 7.0	
is as follows:				
Cryptographic Module Specification:	Level 2	Cryptograph	ic Module Ports and Interfaces:	Level 2
Roles, Services, and Authentication:	Level 2	Finite State I	Model:	Level 2
Physical Security:	Level 2	Cryptographic Key Management:		Level 2
(Multi-Chip Standalone) EMI/EMC:	Level 2	Self-Tests:		Level 2
Design Assurance:	Level 2	Mitigation of	Other Attacks:	Level N/A
Operational Environment:	Level N/A	tested in the	following configuration(s): N/A	
The following FIPS approved Cryptographic		Cert. #379); SF	d #795); HMAC (Certs. #77 and #436); IS (Certs. #344 and #794); Triple-DES	
The cryptographic module also contains the	e following non-FIPS approve	d algorithms:	Diffie-Hellman (key agreement; key methodology provides 80 or 96 bits strength); RSA (key wrapping; key methodology provides between 80 encryption strength); MD5; HMAC-	s of encryption establishment and 112 bits of
	Overall Level	Achieved: 2	2	
Signed on behalf of the Government of the United States Signature: Nulliam Charker		Signed on behalf of the Government of Canada		
		Signature: Company		
Dated: October 14, 2008		Dated: _	October 3, 2008	
Chief, Computer Security Division National Institute of Standards and Technol	logy		Industry Program Group nications Security Establishment Car	nada



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





The Communications Security
Establishment of the Government
of Canada

Certificate No. 1039

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:

Cisco 2851 Integrated Services Router by Cisco Systems, 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.

Cisco 2851 Integrated Services Router by Cisco Systems, Inc. (Hardware Version: 2851; Firmware Version: 12.4(15)T3; Hardware)

(****		0 101010111 1211(10)10) 1141411410)	
and tested by the Cryptographic Module Testing accredited laboratory:		Atlan Laboratories, NVLAP Lab Code 200492-0 CRYPTIK Version 7.0	
is as follows:			
Cryptographic Module Specification:	Level 2	Cryptographic Module Ports and Interfaces:	Level 2
Roles, Services, and Authentication:	Level 2	Finite State Model:	Level 2
Physical Security:	Level 2	Cryptographic Key Management:	Level 2
(Multi-Chip Standalone) EMI/EMC:	Level 2	Self-Tests:	Level 2
Design Assurance:	Level 2	Mitigation of Other Attacks:	Level N/A
Operational Environment:	Level N/A	tested in the following configuration(s): N/A	
The following FIPS approved Cryptograph		(Certs. #96 and #795); HMAC (Certs. #50 and #436) (Cert. #379); SHS (Certs. #317 and #794); Triple-DE	
The cryptographic module also contains the	ne following non-FIPS approve	d algorithms: Diffie-Hellman (key agreement; key methodology provides 80 or 96 bits strength); RSA (key wrapping; key e methodology provides between 80 a encryption strength); MD5; HMAC-N	of encryption establishment and 112 bits of
	Overall Level	Achieved: 2	
Signed on behalf of the Government of the United States Signature: Main Ranker		Signed on behalf of the Government of Canada Signature:	
Dated: October 14, 200	8'	Dated: October 3, 2008	
Chief, Computer Security Division		Director, Industry Program Group	

Communications Security Establishment Canada

National Institute of Standards and Technology



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





The Communications Security Establishment of the Government of Canada

Certificate No. 1040

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:

Cisco 3825 and Cisco 3845 Integrated Services Routers by Cisco Systems, 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.

Cisco 3825 and Cisco 3845 Integrated Services Routers by Cisco Systems, Inc. (Hardware Versions: 3825 and 3845; Firmware Version: 12.4(15)T3; Hardware)

and tested by the Cryptographic Module Testing accredited laboratory:		Atlan Laboratories, NVLAP Lab Code 200492-0 CRYPTIK Version 7.0	
is as follows:			
Cryptographic Module Specification:	Level 2	Cryptographic Module Ports and Interfaces:	Level 2
Roles, Services, and Authentication:	Level 2	Finite State Model:	Level 2
Physical Security:	Level 2	Cryptographic Key Management:	Level 2
(Multi-Chip Standalone) EMI/EMC:	Level 2	Self-Tests:	Level 2
Design Assurance:	Level 2	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		(Certs. #96 and #795); HMAC (Certs. #50 and #436) (Cert. #379); SHS (Certs. #317 and #794); Triple-DE	
The cryptographic module also contains	the following non-FIPS approve	ed algorithms: Diffie-Hellman (key agreement; key of methodology provides 80 or 96 bits strength); RSA (key wrapping; key of methodology provides between 80 a encryption strength); MD5; HMAC-M	of encryption establishment and 112 bits of
	Overall Level	Achieved: 2	
Signed on behalf of the Government of the United States Signature: William Charker		Signed on behalf of the Government of Canada	
		Signature: Canal	
Dated: October 14, 2008		Dated: October 3, 2008	
Chief, Computer Security Division National Institute of Standards and Technology		Director, Industry Program Group Communications Security Establishment Canada	