ACUMEN
S E C U R I T Y

2400 Research Blvd, Suite 395
Rockville, MD 20850
tel: +1 (703) 375-9820
info@acumensecurity.net
www.acumensecurity.net

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Whom It May Concern:

Acumen Security verified that the following product faithfully embeds a FIPS 140-2 validated cryptographic module, **Cisco IOS-XE version 16.9**

The software version is known to operate on the following platform(s):

- Integrated Services Router (ISR) 1100 series

During the course of the review, Acumen Security confirmed that the following cryptographic module is properly incorporated into the product:

- IOS Common Cryptographic Module (IC2M) Rel5 – Cert #2388

Acumen Security confirmed that the following features leverage the embedded cryptographic module,

Feature	Cryptographic Service
IKE/IPsec SNMPv3 SSH TLS	• Session establishment supporting each service, • All underlying cryptographic algorithms supporting each services' key derivation functions, • Hashing for each service, • Symmetric encryption for each service.
Encrypted Passwords	• Symmetric encryption
Radius TACACS BGP OSPF NTP IS-IS	When transmitted through an IKE/IPsec tunnel • Session establishment supporting each service, • All underlying cryptographic algorithms supporting each services' key derivation functions, • Hashing for each service, • Symmetric encryption for each service.

Details of the verification may be obtained from Cisco Systems, Inc. at the request of interested parties. This letter represents the independent opinions of Acumen Security and does not imply endorsement of the product by the CMVP or any other parties.

Sincerely,

Ashit Vora
Laboratory Director