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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 16.12

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

- Cisco Integrated Services Router Rugged (IR) 1101.

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	<ul style="list-style-type: none"> • Session establishment supporting each service, • All underlying cryptographic algorithms supporting each services' key derivation functions, • Hashing for each service, • Symmetric encryption for each service.
SNMPv3	
SSH	
TLS	
TLS(HTTPS)	
Encrypted Passwords	<ul style="list-style-type: none"> • Symmetric encryption
RADIUS	<ul style="list-style-type: none"> • Session establishment supporting each service, • All underlying cryptographic algorithms supporting each services' key derivation functions, • Hashing for each service, • Symmetric encryption for each service. When transmitted through an IKE/IPsec tunnel.
TACACS	
BGP	
IKE/IPsec	
OSPF	
NTP	
IS-IS	

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