



May 21st, 2020

To Whom It May Concern

A conformance review of Cisco Catalyst 4500 Series with IOS-XE 3.11 ("the Product") was completed and found that the Product properly integrates the following FIPS 140-2 approved cryptographic module:

- IOS Common Cryptographic Module (FIPS 140-2 Cert. #2388)

The Software is known to run on the following platforms:

- CAT 4500E Series with Sup8E
- CAT 4500E Series with Sup8LE
- CAT 4500E Series with Sup9E
- CAT 4500X Series
- CAT 4500XF Series

Cisco confirmed that the following features leverage the embedded cryptographic module to provide cryptographic services for **TLS, SSHv2, IKEv1, IKEv2, SNMPv3, IPSec Radius, Radius and 802.1x**:

1. Session establishment supporting each service,
2. All underlying cryptographic algorithms supporting each services' key derivation functions,
3. Hashing for each service,
4. Symmetric encryption for each service.

Details of Cisco's review can be provided upon request. The intention of this letter is to provide an assessment and assurance that the Product correctly integrates and uses the validated cryptographic module within the scope of the claims indicated above. The Cryptographic Module Validation Program (CMVP) has not independently reviewed this analysis, testing or the results.

Any questions regarding these statements may be directed to the Cisco Global Certification Team (certteam@cisco.com).

Thank you,

A handwritten signature in black ink that reads "Edward D Paradise".

Ed Paradise  
VP Engineering  
Cisco Security & Trust Organization