

April 4, 2018

To whom it may concern,

Cygnacom's Cryptographic Equipment Assessment Laboratory (CEAL) has verified that the following Illumio, Inc. (Illumio) products faithfully incorporate the use of the cryptographic functions provided by the FIPS 140-2 validated modules detailed below:

- Policy Compute Engine (PCE) version 18.1-FIPS
- Virtual Enforcement Node (VEN) for Linux version 18.1
- Virtual Enforcement Node (VEN) for Windows version 18.1

The cryptographic operations performed apply to data in transit. The specific uses of the FIPS 140-2 validated modules with the Illumio products are specified as follows:

Policy Compute Engine (PCE) version 18.1-FIPS: Illumio affirms that the Red Hat
Enterprise Linux OpenSSL Cryptographic Module and Google Inc. BoringCrypto are
built, initialized and operated in a manner that is FIPS 140-2 compliant, as per the
associated security policies and applicable CMVP caveat.

The associated security policies and CMVP caveat can be found here: https://csrc.nist.gov/CSRC/media/projects/cryptographic-module-validation-program/documents/security-policies/140sp3016.pdf

https://csrc.nist.gov/CSRC/media/projects/cryptographic-module-validation-program/documents/security-policies/140sp2964.pdf

 Virtual Enforcement Node (VEN) for Linux version 18.1: Illumio affirms that the OpenSSL FIPS Object Module SE and Red Hat Enterprise Linux Kernel Crypto API Cryptographic Module are built, initialized and operated in a manner that is FIPS 140-2 compliant, as per the associated security policies and applicable CMVP caveat.

The associated security policies and CMVP caveat can be found here: https://csrc.nist.gov/CSRC/media/projects/cryptographic-module-validation-program/documents/security-policies/140sp2398.pdf

https://csrc.nist.gov/CSRC/media/projects/cryptographic-module-validation-program/documents/security-policies/140sp2742.pdf

https://csrc.nist.gov/CSRC/media/projects/cryptographic-module-validation-program/documents/security-policies/140sp3145.pdf

 Illumio Virtual Enforcement Node (VEN) for Windows version 18.1: Illumio affirms that the Microsoft Corporation Kernel Mode Cryptographic Primitives Library (cng.sys) is initialized and operated in a manner that is FIPS 140-2 compliant, as per the associated security policies and applicable CMVP caveat.

The associated security policies and CMVP caveat can be found here: https://csrc.nist.gov/CSRC/media/projects/cryptographic-module-validation-program/documents/security-policies/140sp2356.pdf

https://csrc.nist.gov/CSRC/media/projects/cryptographic-module-validation-program/documents/security-policies/140sp2936.pdf

Sincerely,

Withya Rachamadugu.

CEAL Director

Cryptographic Equipment Assessment Laboratory (CEAL)



April 4, 2018

To whom it may concern,

Cygnacom's Cryptographic Equipment Assessment Laboratory (CEAL) has verified that the "Policy Compute Engine (PCE) version 18.1-FIPS" of Illumio, Inc. (Illumio) faithfully incorporates the cryptographic functions represented in the following cryptographic modules:

Module Name	FIPS 140-2 Certificate
Red Hat Enterprise Linux OpenSSL Cryptographic Module (Software Version: 5.0)	Cert. #3016
Google Inc, BoringCrypto (Software Version: 24e5886c0edfc409c8083d10f9f1120111efd6f5)	Cert. #2964

Red Hat Enterprise Linux 7.4

Illumio affirms that the Red Hat Enterprise Linux OpenSSL Cryptographic Module (Software Version: 5.0) and the Google Inc. BoringCrypto (Software Version: 24e5886c0edfc409c8083d10f9f1120111efd6f5) used by the Illumio Policy Compute Engine (PCE) version 18.1-FIPS are built, initialized and operated in a manner that is FIPS 140-2 compliant, on the Red Hat Enterprise Linux 7.4 operating system using the associated FIPS 140-2 security policies (URL's below) as a reference.

https://csrc.nist.gov/CSRC/media/projects/cryptographic-module-validation-program/documents/security-policies/140sp3016.pdf

https://csrc.nist.gov/CSRC/media/projects/cryptographic-module-validation-program/documents/security-policies/140sp2964.pdf

Sincerely,

Nithya Rachamadugu

CEAL Director

Cryptographic Equipment Assessment Laboratory (CEAL)

Withya Rachamadaga



April 4, 2018

To whom it may concern,

Cygnacom's Cryptographic Equipment Assessment Laboratory (CEAL) has verified that the "Virtual Enforcement Node (VEN) for Linux version 18.1" of Illumio, Inc. (Illumio) faithfully incorporates the cryptographic functions represented in the following cryptographic modules:

Module Name	FIPS 140-2 Certificate
OpenSSL FIPS Object Module SE (Software Version: 2.0.9, 2.0.10, 2.0.11, 2.0.12, 2.0.13, 2.0.14, 2.0.15 or 2.0.16)	Cert. #2398
Red Hat Enterprise Linux Kernel Crypto API Cryptographic Module v4.0 (Software Version: 4.0)	Cert. #2742
Red Hat Enterprise Linux Kernel Crypto API Cryptographic Module (Software Version: 5.0)	Cert. # 3145

Red Hat Enterprise Linux 7.1

Illumio affirms that the OpenSSL FIPS Object Module SE (Software Version: 2.0.9, 2.0.10, 2.0.11, 2.0.12, 2.0.13, 2.0.14, 2.0.15 or 2.0.16) and Red Hat Enterprise Linux Kernel Crypto API Cryptographic Module v4.0 (Software Version: 4.0) used by the Illumio Virtual Enforcement Node (VEN) version 18.1 are built, initialized and operated in a manner that is FIPS 140-2 compliant on the Red Hat Enterprise Linux 7.1 operating system using the associated FIPS 140-2 security policies as a reference.

https://csrc.nist.gov/CSRC/media/projects/cryptographic-module-validation-program/documents/security-policies/140sp2398.pdf

https://csrc.nist.gov/CSRC/media/projects/cryptographic-module-validation-program/documents/security-policies/140sp2742.pdf

Red Hat Enterprise Linux 7.4

Illumio affirms that the OpenSSL FIPS Object Module SE (Software Version: 2.0.9, 2.0.10, 2.0.11, 2.0.12, 2.0.13, 2.0.14, 2.0.15 or 2.0.16) and Red Hat Enterprise Linux Kernel Crypto API Cryptographic Module (Software Version: 5.0) used by the Illumio Virtual Enforcement Node (VEN) version 18.1 are built, initialized and operated in a manner that is FIPS 140-2 compliant on the Red Hat Enterprise Linux 7.4 operating system using the associated FIPS 140-2 security policies as a reference.

https://csrc.nist.gov/CSRC/media/projects/cryptographic-module-validation-program/documents/security-policies/140sp2398.pdf

https://csrc.nist.gov/CSRC/media/projects/cryptographic-module-validation-program/documents/security-policies/140sp3145.pdf

Sincerely,

Nithya Rachamadugu

CEAL Director

Cryptographic Equipment Assessment Laboratory (CEAL)

Willia Rachamadigu.



April 4, 2018

To whom it may concern,

Cygnacom's Cryptographic Equipment Assessment Laboratory (CEAL) has verified that the "Virtual Enforcement Node (VEN) for Windows version 18.1" of Illumio, Inc. (Illumio) faithfully incorporates the cryptographic functions represented in the following cryptographic modules:

Module Name	FIPS 140-2 Certificate
Kernel Mode Cryptographic Primitives Library (cng.sys) in Microsoft Windows 8.1 Enterprise, Windows Server 2012 R2, Windows Storage Server 2012 R2, Surface Pro 3, Surface Pro 2, Surface Pro, Surface 2, Surface, Windows RT 8.1, Windows Phone 8.1, Windows Embedded 8.1 Industry Enterprise, StorSimple 8000 Series, Azure StorSimple Virtual Array Windows Server 2012 R2 (Software Version: 6.3.9600 and 6.3.9600.17042)	Cert. #2356
Kernel Mode Cryptographic Primitives Library (cng.sys) in Microsoft Windows 10, Windows 10 Pro, Windows 10 Enterprise, Windows 10 Enterprise LTSB, Windows 10 Mobile, Windows Server 2016 Standard, Windows Server 2016 Datacenter, Windows Storage Server 2016 (Software Version:	Cert. #2936

Microsoft Windows Server 2012 R2

Illumio affirms that the Microsoft Corporation Kernel Mode Cryptographic Primitives Library (cng.sys) (Software Version: 6.3.9600 and 6.3.9600.17042) used by the Illumio Virtual Enforcement Node (VEN) version 18.1 is initialized and operated in a manner that is FIPS 140-2 compliant on the Microsoft Windows Server 2012 R2 operating system using the associated FIPS 140-2 security policy as a reference.

https://csrc.nist.gov/CSRC/media/projects/cryptographic-module-validation-program/documents/security-policies/140sp2356.pdf

Microsoft Windows Server 2016

Illumio affirms that the Microsoft Corporation Kernel Mode Cryptographic Primitives Library (cng.sys) (Software Version: 10.0.14393) used by the Illumio Virtual Enforcement Node (VEN) version 18.1 is initialized and operated in a manner that is FIPS 140-2 compliant on the Microsoft Windows Server 2016 operating system using the associated FIPS 140-2 security policy as a reference.

https://csrc.nist.gov/CSRC/media/projects/cryptographic-module-validation-program/documents/security-policies/140sp2936.pdf

Sincerely,

Nithya Rachamadugu.
Nithya Rachamadugu

CEAL Director

Cryptographic Equipment Assessment Laboratory (CEAL)