vCEP

CERTES NETWORKS

Virtual Certes Enforcement Point (vCEP) Appliance

The vCEP is the virtualized version of Certes Net Enforcer and is available as a virtual machine on VMware or KVM environments.

FEATURES AND BENEFITS

- Interoperable with CryptoFlow ® Net Creator (CFNC) software
- Encrypted throughputs of 20MB, 200MB, 1GB, and unlimited
- Network agnostic integrating easily into any network infrastructure
- Visibility of data in transit
- Easy installation and management
- Per-frame/packet authentication

COMPREHENSIVE DATA PROTECTION

- IPsec site-to-site networks
- MPLS meshed networks
- Metro Ethernet and VPLS networks
- Voice and video over IP applications
- Internet and SDN links
- Virtualized environments: VMware, KVM

PRODUCT OVERVIEW

The vCEP encryption appliance provides data protection and application segmentation. The vCEPs integrate easily into any existing network, whether Legacy networks, 3rd party networks or multiple sites in different locations – we have got you covered.

The vCEPs are interoperable with our key management software, CryptoFlow® Net Creator, and are easy to install, scalable for any size infrastructure, and simple to manage. With dedicated vCEP appliances, customers experience high encryption throughput without impacting performance.

Scalable and Secure Group Encryption
The vCEP uses scalable group encryption to provide encrypted, authenticated, low-latency, any-to-any connectivity. Group encryption reduces deployment complexity. It provides fully meshed encryption that is easy to manage. Group encryption is compatible with highly available network designs and QoS and network monitoring tools.

Ethernet Frame Encryption
The vCEP is compatible with Layer 2 unicast, multicast, point-to-point, and multipoint-to-multipoint topologies. The vCEP also authenticates all Ethernet frames, preventing man-in-the-middle attacks.

IP Packet Encryption
The vCEP provides full data encryption for Layer 3 IP networks using standard IPSEC packet format while preserving the original IP header. The vCEP also uses Certes' patented Layer 4 encryption to protect the IP packet payload while preserving the original IP header and original TCP/UDP headers. This unique capability maintains network transparency, while providing strong data protection. By preserving the original header and encrypting only the payload, the vCEP protects your data over any IP network. This includes any multi-carrier, load-balanced, or high availability network, and allows network services, such as Netflow/Jflow, and Class of Service (CoS) based traffic shaping, to be maintained throughout the network.

Central Policy Management
CryptoFlow® Net Creator (CFNC) is a centralized key management system that organizes and streamlines operations while providing you with full control of your security posture. With a user-friendly GUI and drag-and- drop tool, you have the ability to define and deploy policies with ease from one central point of control.

CERTES NETWORKS PROVABLE SECURITY ™
Visual proof that your security strategy is effective

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PERFORMANCE

- Encrypted throughputs of 20MB, 200MB, 1GB, and unlimited *

* Dependent on packet size of 512 or larger and also dependent on the hardware used.

ENCRYPTION ALGORITHMS

- AES-GCM-256
- AES-CBC-256

MESSAGE AUTHENTICATION & INTEGRITY ALGORITHMS

- HMAC-SHA2-256
- HMAC-SHA2-512

HYPERVISORS

- KVM
- VMware ESXi 5.5 and higher

DEVICE MANAGEMENT

- CryptoFlow Net Creator
- Command Line Interface
- Out-of-band management
- SNMPv2c and SNMPv3 managed object support
- Alarm condition detection and reporting (traps and SNMP alarm table)
- Syslog support
- Audit Log

NETWORK SUPPORT

- Ethernet
- VLAN tag preservation
- MPLS tag preservation
- IPv4
- Secure NTP

INSTALLATION SOFTWARE

- OVA for VMware
- QCOW for KVM

To learn more visit CertesNetworks.com

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