DATASHEET

vCEP

Virtual Certes Enforcement Point (vCEP) Appliance

The vCEP is the virtualized version of Certes Enforcement Point and is available as a virtual machine on VMware/KVM and Nutanix environments and Cloud including AWS and MS Azure.

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
- Cloud environments: AWS, MS AZURE

PRODUCT OVERVIEW

The vCEP virtual 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 Protection

The vCEP uses scalable group protection to provide encrypted, authenticated, low-latency, any-to-any connectivity. Group encryption reduces deployment complexity. It provides multiple logical policy support including Mesh, point to point, hub and spoke, multicast that is easy to manage. Group protection is used to provide compatibility with highly available network designs, QoS and support is provided to network monitoring tools.

IP Packet Protection

The vCEP provides full data protection for Certes patented Layer 4 protection to protect the IP packet payload while preserving the original IP header and original TCP/UDP headers including QOS. The vCEP also uses Layer 3 IP networks using standard IPSEC packet format while preserving the original IP header. 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 with IPFIX, and Class of Service (CoS) based traffic shaping, to be maintained throughout the network.

Ethernet Frame Protection

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.

Central Policy Management

CryptoFlow® Net Creator (CFNC) is a centralized Quantum safe key management system using Quantum Key Distribution and Quantum Random Numbers 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 Data Protection and Risk Mitigation (DPRM) is

100% data focused, Crypto Agile and Quantum Safe

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PERFORMANCE

- Over 10000 Policies supported*

* Dependent on objects that are created

ENCRYPTION ALGORITHMS

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

MESSAGE AUTHENTICATION & INTEGRITY ALGORITHMS

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

HYPERVISORS

- KVM
- VMware ESXi 5.5 and higher
- Nutanix AHV
- Red Hat OpenShift Virtualization

CLOUD PROVIDERS

- Amazon Web Services
- Microsoft Azure

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
- Netflow/JFlow/IPFIX

COMMUNICATIONS SUPPORT

- HTTPS
- TLS
- X509
- SSH2
- ANSI X9.31-1998
- JDBC
- IPv4
- IPv6
- Secure NTP

INSTALLATION SOFTWARE

- OVA for VMware
- QCOW for KVM
- KVM for Nutanix
- AMI for AWS
- VHD for MS Azure

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