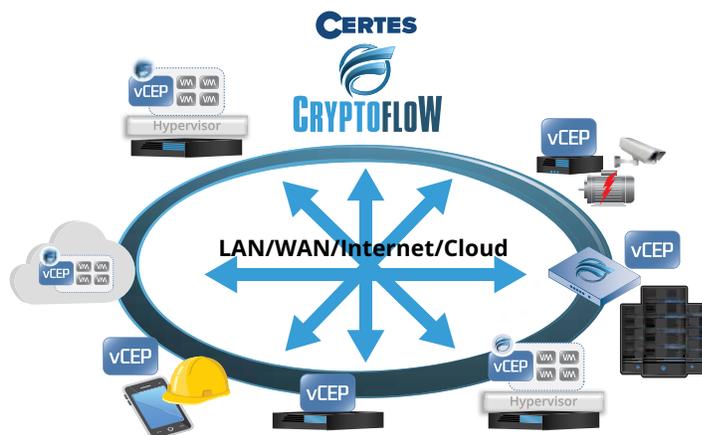# CERTES

Introducing Certes CryptoFlow® Solutions

Certes CryptoFlow® Solutions are the industry's first products to combine the flexibility and power of virtualized networking with the most secure cryptographic technology.

With Certes CryptoFlow Solutions, enterprises and managed service providers can create tunnel-less, multi-point, multi-layer VPNs that protect traffic for any application over any network. CryptoFlow VPNs protect data moving across LAN, WAN, Internet, Virtual and Cloud environments. A CryptoFlow VPN can be set up in a few seconds with Certes' amazingly simple point-and-click security policy interface.

LAN/WAN/Internet/Cloud

How CryptoFlow VPNs protect your sensitive data

- Certes' award-winning security policy enforcement points sit in the physical, virtual or Cloud networks and include OpenStack compatible virtual encryptors. These unobtrusive physical and virtual devices process traffic and apply security policies.

- Certes' ground breaking CryptoFlow Net Creator creates CryptoFlow VPNs encompassing the group of end points you want to include. Any topology is possible, from point-to-point, to hub-and-spoke, to full mesh and anything in between.

- The CryptoFlow Net Creator policy engine decomposes the VPN into a series of security policies, which are pushed to the enforcement points over a secure management channel. Group keying ensures all designated enforcement points are seamlessly connected in the same CryptoFlow VPN.

- Enforcement points act on policies and encrypt traffic at network Layer 2, Layer 3 or Layer 4, depending on what you want to protect and which networks the traffic will cross. The most advanced encryption available is used to protect and ensure the integrity of your traffic, including AES-256 and SHA-512.

- Now a CryptoFlow VPN connects all the targeted end points into a fluid, hitless VPN that protects targeted data in physical, virtual and Cloud environments.

- Certes' unique Failsafe Re-Keying prevents outages and simplifies the rotation of keys. You can schedule re-keying whenever you want with full confidence that it will be smooth and simple.

- CryptoFlow Net Creator provides detailed reporting, alerting and auditing features that enable you to confirm the proper security and encryption controls have been applied to sensitive data, for compliance audits and security architecture planning.

Capabilities

Control: You have a single point of control for encrypting data in motion, instead of a fragmented hodgepodge mess of IPsec tunnels, SSL configuration, fragmented application-layer controls, and complex configuration of each router and switch. Do it all, end-to-end, with one CryptoFlow VPN.

Keys in Hand: You control all encryption keys and don't need to rely on some external application to control them for you.

Scaling: A CryptoFlow VPN can encompass thousands of end-points, permitting data traffic to be protected on a scale never achieved before.

Hitless: CryptoFlow enforcement points can process traffic at up to 10 Gbps with imperceptible latency. So even real-time applications will be fully encrypted with zero impact on network capacity or application performance.

Multi-Layer: Only Certes offers a solution for encrypting at network Layer 2, Layer 3 or Layer 4, permitting the ultimate flexibility to extend CryptoFlow VPNs over any network for any application.

Decoupled Security: Certes CryptoFlow Solutions completely offload the management of data traffic security from the management of the network or applications.

Find out how Certes CryptoFlow Solutions will revolutionize how you secure data in motion. Visit CertesNetworks.com