

# Encryption as a Service (EaaS)

*Reduce Risk, Save Money!*

### Product Overview

Certes Network's Encryption-as-a-Service (EaaS) offering provides a fast and cost-effective option for companies looking to secure their data as it travels across wide area networks without impacting the existing network performance or service level agreements, and without requiring additional personnel or capital expenditures.

Taking advantage of Encryption as a Service, companies can eliminate the burden of installation, monitoring, and management functions while still realizing the full benefits of AES 256 bit encryption and per packet/frame authentication. The Certes Networks Encryption-as-a-Service offering is powered by TrustNet Manager, the industry's only multi-layer tunnel-less encryption solution.

With Encryption-as-a-Service, network encryption policies and keys can be easily managed across large and small deployments located around the world. Customers gain all the benefits of the industry's leading network security, while eliminating the costs associated with distribution, deployment, and ongoing upgrades and maintenance of corporate owned assets. TrustNet Manager also allows customers to maintain secure control of their security policy definitions while outsourcing all other facets of the solution making it ideal for customers who want to maintain ownership of their policies while still taking advantage of the managed service benefits.

For small and medium-sized businesses with limited budget and small IT staffs, Certes Network's Encryption as a Service (EaaS) provides enterprise-class security for a nominal monthly fee with minimal impact on IT personnel.

### Features and Benefits

Encryption as a Service - Avoid capital expenses and start encrypting quickly. The EaaS includes encryption appliances, management software and support services on a monthly basis. Optional add-on services include:

**Planning** – Expert planning for fast and secure deployment

**Basic Staging** – Simplify installation with pre-configured encryption appliances and management software

**On-site Staging, Installation and Repair** – Hassle-free on-site appliance and management system deployment with continuing on-site repair

**Policy and Configuration** – Expert ongoing consulting services to define security policies for initial deployment, add new sites, and change existing sites

**Worldwide Hardware Sparing and Replacement** – Premium worldwide fast shipping of replacement hardware for global organizations

**Hosted Service Management with Monitoring** – Simple and powerful encryption service management from any location on any platform with 24x7 monitoring for peace of mind

**Full-Service Management** – Outsource configuration, management, 24x7 monitoring and reporting while retaining full control of the encryption keys and policies

Encryption as a Service and the add-on services described above can be combined to create a custom service. Our security experts will work with you to define a program that meets your security, compliance and budget requirements. EaaS is transparent to other managed services and is a single solution that can be managed over dual-carrier or multi-carrier networks without violating service agreements.

For pricing information or to discuss your specific deployment scenario, please call **+1 (877) 878-6655** or send an email to [sales@certesnetworks.com](mailto:sales@certesnetworks.com).

### CUSTOMER BENEFITS

- Provides any-to-any encryption without the complexity and restrictions of IPsec tunnels
- Secures all traffic types - data, voice, video and multicast
- Encrypts at Layer 2, Layer 3 or Layer 4
- Does not impact network or application performance
- Does not impact network visibility or monitoring
- Provides AES 256-bit encryption and per-packet/per-frame authentication

### PROVIDER BENEFITS

- Provides a highly differentiated security/service offering
- Requires no redesign of provider or customer networks
- Installs quickly
- No network down time or reconfiguration required
- Very little post install support required (low touch at customer sites)
- Transparent to other managed services
- Low cost to serve

### SERVICE ADVANTAGES

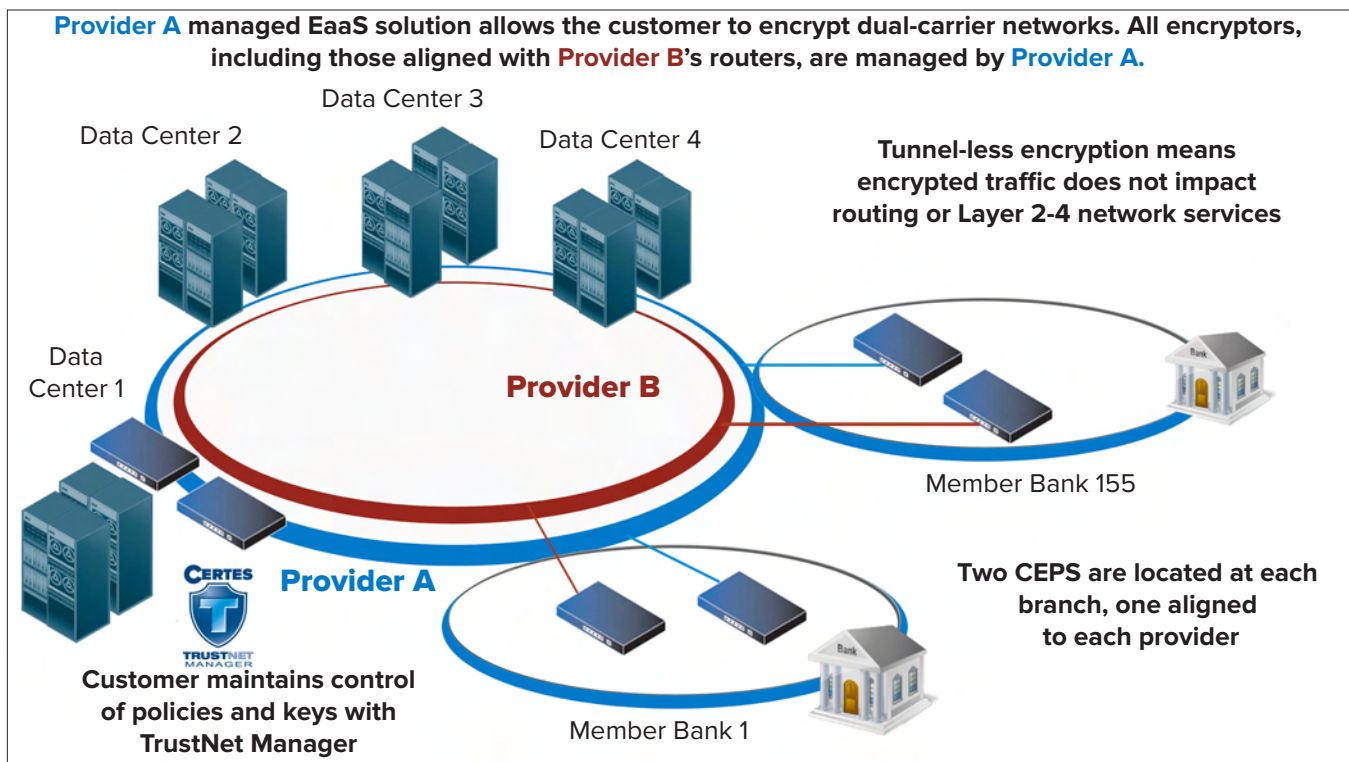
- Allows policies based on your existing network or application topologies
- Uses standards-based protocols
- Provides policy enforcement without IPsec tunnels
- Preserves native routing or switching protocols and paths
- Offers simplified operation and reduced complexity

## Customer Deployment Case Study

A credit card company was under pressure to encrypt traffic flowing from 155 of its member banks to 4 data centers located throughout the world.

A common practice for many financial institutions is to use dual carriers to route traffic to ensure uninterrupted traffic flow and network access. While this architecture ensures high availability, it prevents tunnel-based encryption due to issues with deploying cross-carrier IPsec tunnels. Even if this operational issue could have been resolved with traditional IPsec tunnels, there would be an unacceptable impact on performance and latency. With its unique network independent tunnel-less group encryption solution, TrustNet Manager can easily secure this or any other network.

One of the service providers (Provider A in the diagram below) was a Certes Networks Global Partner and quickly recognized that the issues noted above could be overcome by providing a TrustNet Manager enabled Encryption as a Service (EaaS) solution.



The provider deployed bandwidth matched CEPs behind each CE router at the member bank and data center sites. The customer maintains control of the policies and keys using TrustNet Manager. With Certes Networks' solution the original headers are left in the clear so that encrypted traffic is transparent to the underlying infrastructure and all layer 2-4 services are preserved. Group Keying makes the solution easy to manage, and tunnel-less encryption protects data without impacting network or application performance.