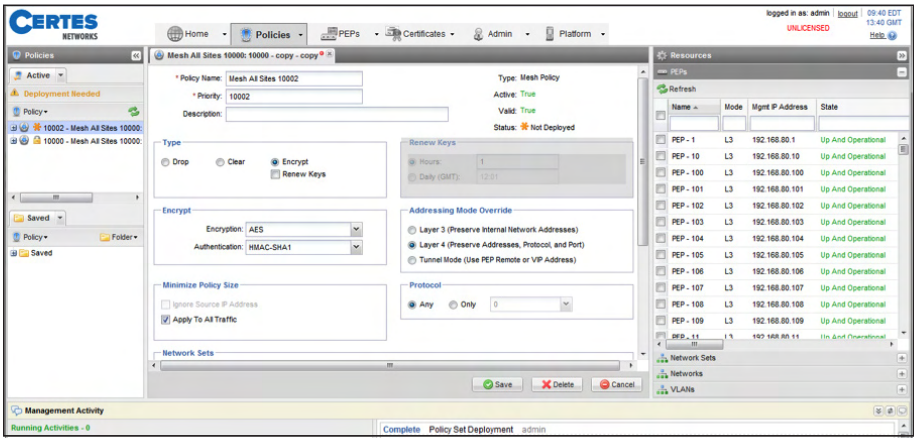
Datasheet

Certes TrustNet Manager™

Group Encryption Management for Policies, Keys and Devices

Product Overview

Certes TrustNet Manager is a web-based management platform that simplifies security management while preserving network performance and functionality. It provides a browser based user interface for managing policies and devices and distributing keys for group encryption deployments. TrustNet Manager offers simplified encryption management without requiring costly changes to your existing network infrastructure.



10002 - Mesh All Sites 10000:
10000 - Mesh All Sites 10000:
Saved

Mesh All Sites 10000: 10000 - copy - copy

* Policy Name: Mesh All Sites 10002
* Priority: 10002
Description:

Type: Mesh Policy
Active: True
Valid: True
Status: Not Deployed

Type: ○ Drop ○ Clear ● Encrypt □ Renew Keys

Renew Keys: ● Hours: 1 ○ Daily (GMT): 12:01

Encrypt: Encryption: AES; Authentication: HMAC-SHA1

Addressing Mode Override:
○ Layer 3 (Preserve Internal Network Addresses)
● Layer 4 (Preserve Addresses, Protocol, and Port)
○ Tunnel Mode (Use PEP Remote or VIP Address)

Minimize Policy Size: □ Ignore Source IP Address ☑ Apply To All Traffic

Protocol: ● Any ○ Only 0

Network Sets

Name	Mode	Mgmt IP Address	State
PEP - 1	L3	192.168.80.1	Up And Operational
PEP - 10	L3	192.168.80.10	Up And Operational
PEP - 100	L3	192.168.80.100	Up And Operational
PEP - 101	L3	192.168.80.101	Up And Operational
PEP - 102	L3	192.168.80.102	Up And Operational
PEP - 103	L3	192.168.80.103	Up And Operational
PEP - 104	L3	192.168.80.104	Up And Operational
PEP - 105	L3	192.168.80.105	Up And Operational
PEP - 106	L3	192.168.80.106	Up And Operational
PEP - 107	L3	192.168.80.107	Up And Operational
PEP - 108	L3	192.168.80.108	Up And Operational
PEP - 109	L3	192.168.80.109	Up And Operational
PEP - 11	L3	192.168.80.11	Up And Operational

Running Activities - 0

Complete Policy Set Deployment admin

Encryption policies can be deployed and centrally managed from TrustNet Manager.

With TrustNet Manager, users can:

- Manage network encryption from anywhere using a web-based interface
- Define and distribute security policies with simple drag-and-drop simplicity
- Separate security management from network management
- Review and audit system events to simplify regulatory compliance
- Automatically validate changes before deployment

TrustNet Manager acts as the central point of control for security staff to define policies for what traffic to protect and how to protect it. Policies identify which network traffic to encrypt (based on any combination of VLAN ID, source/destination IP address, port information, or protocol ID) and specify what to do with it (encrypt, send in the clear or drop).

TrustNet Manager reliably distributes the group encryption policies and keys to Certes Enforcement Points (CEPs) throughout the network and it periodically sends key updates. TrustNet key updates are hitless, so no network traffic is lost during a rekey. With TrustNet Manager's fail-safe rekey feature, group keys are updated only when all of the group members are ready to receive the new key. This avoids network outages that could occur if some group members use a new key while other group members continue to use an old key.

TrustNet Manager helps you avoid costly misconfigurations and network outages by checking policies for mistakes and misconfigurations before new policies are deployed. It also deploys policy changes only to enforcement points that require changes. Using role-based access control, TrustNet Manager provides separate roles for security control and network management. This allows the security team to outsource network management without losing control of the security policies and keys.

PRODUCT SNAPSHOT

- Simplify encryption management
- Protect the network without compromising performance or availability using group encryption
- Empower the security team to control network security
- Platform for future growth into the cloud

FEATURES AND BENEFITS

- Easy to configure policies for any network
- Separate roles for security control and network management
- Simple management for network encryption appliances
- Manage from anywhere with a browser-based multi-user interface
- Maintain compliance with logging and auditing
- Clustered server architecture for high availability and scale
- Flexible physical or virtual server options reduce cost
- Hitless key updates

COMPREHENSIVE PROTECTION

- IPsec site-to-site networks
- MPLS meshed networks
- Metro Ethernet and VPLS networks
- Voice over IP
- Video and Multicast applications
- Group encryption over public networks
- Multi-carrier networks

CERTES NETWORKS

Datasheet

TrustNet Manager

Group Encryption Management for Policies, Keys and Devices

Policy Generation

- Mesh topologies
- Hub and spoke topologies
- Multicast networks
- Point-to-point connections
- IPsec site-to-site connections

Key Generation

- Generates encryption keys associated with policies
- Optional HSM card for hardware-based random number generation

Key Distribution

- Distributes encryption keys to enforcement points
- Schedule key updates by period (hours) or daily at a pre-determined time
- Cluster-based server with disaster recovery for reliable re-keys
- All communications involving policies and keys are secured using TLS and transmitted through the management ports of the enforcement points
- Communications authenticated using X.509 certificates

Certificate Management

- GUI interface for complete certificate management
- Generate signing requests
- Send requests (CSR) from the CEP/vCEP to the TrustNet Server
- Install certificates onto the CEP/vCEP

System Synchronization

- Time synchronization via Network Time Protocol (NTP) version 3, RFC 1035

Supported Encryption Devices (software versions 1.5 or later)

- CEP10 VSE, CEP100 VSE, CEP1000 VSE, and CEP10G VSE
- CEP10, CEP10-R, CEP100, CEP100-XSA, CEP1000, vCEP

Device Management

- Import and export CEP/vCEP configurations
- Device templates for fast repeat configurations
- Shift-click and select multiple CEPs/vCEPs for bulk operations
- Compare saved configuration with running configuration
- Secure CEPs/vCEPs software upgrades
- Control user roles and passwords
- Monitor CEP/vCEP status, counters and statistics

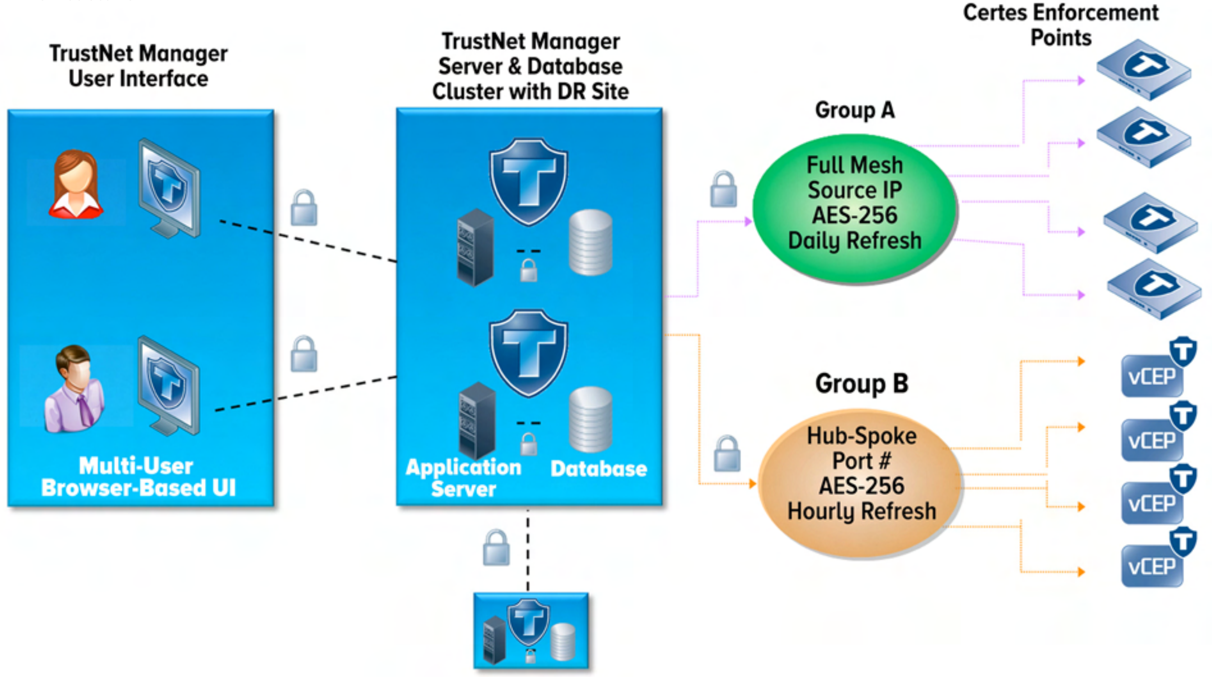
Browser Requirements

For optimal security, stability and performance, the latest major release of the following browsers are fully supported and tested on a rolling basis*:

- Microsoft Internet Explorer®
- Mozilla Firefox®
- Google Chrome™

* Earlier versions and unlisted browsers may be fully or partially supported.

Solution Architecture


TrustNet Manager User Interface
Multi-User Browser-Based UI
TrustNet Manager Server & Database Cluster with DR Site
Application Server
Database
Certes Enforcement Points
Group A
Full Mesh
Source IP
AES-256
Daily Refresh
Group B
Hub-Spoke
Port #
AES-256
Hourly Refresh
vCEP
vCEP
vCEP
vCEP

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