

DATA SHEET

Policy and Key Manager

CipherEngine

PRODUCT SNAPSHOT

- Global security policy control for any network
- Simplified management of network encryption
- Easy security policy deployment across entire network
- Simplified operation and reduced complexity

FEATURES AND BENEFITS

- Security Policies for any network
 - Layer 2 Ethernet encryption
 - Layer 3 IP encryption
 - Layer 4 payload only encryption
- Global Management and configuration
 - Network security policy enforcement
 - Dynamic encryption key creation and distribution

COMPREHENSIVE DATA PROTECTION

- IPsec site-to-site networks
- MPLS meshed networks
- Metro Ethernet and VPLS networks
- Voice over IP
- Video and Multicast applications

CONTACT INFORMATION

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Global Security Policy, Encryption Key, and Configuration Management

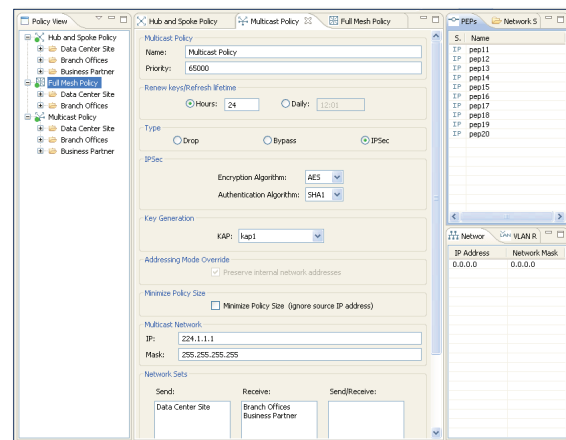
Product Overview

CipherEngine is a global policy and key management solution for network encryption. This easy to use solution scales easily and provides global security management, encryption key generation and distribution, and enforcement point configuration for any Ethernet or MPLS encryption deployment. CipherEngine offers simplified encryption management without requiring costly changes to your existing network infrastructure.

With CipherEngine you can:

- Centrally manage your encryption deployment
- Monitor and manage encryptors from a single interface
- Make real time changes to security policies
- Generate and dynamically distribute encryption keys based on group policies
- Securely push encryption keys and policies to CEPs

CipherEngine is three powerful security applications in one easy-to-use solution. CipherEngine allows you to easily define security policies that will be enforced by the CEPs, our wire-speed encryption appliances. CipherEngine generates key material based on the policies created and then securely pushes the encryption keys and policies to the CEPs.



Multiple policies can be deployed and managed centrally from CipherEngine.

CipherEngine Management Authority Point (MAP)

The Management and Policy server, or MAP, is CipherEngine's policy services interface which provides centralized creation, monitoring and management of network encryption policies.

Policies defined within CipherEngine specify what traffic to protect and how to protect it. These policies can use various encryption selectors, such as source IP address, destination IP address, source and destination port number, protocol ID or VLAN tag ID.

CipherEngine Key Authority Point (KAP)

The Key Authority Point, or KAP, is CipherEngine's key generation and distribution mechanism. The KAP receives the policies from the MAP and then generates and distributes the encryption keys and the MAP policies to the CEPs.

CipherView

CipherView is CipherEngine's device management application which controls all configuration aspects of the CEPs, including network configuration, SNMP hosts and syslog servers.

Monitoring and Reporting

CipherEngine includes log and audit reporting mechanisms, allowing you to collect and monitor important criteria such as enforcement point status, policy changes, device configuration changes, and password changes.

CipherEngine Features and Benefits

Feature	Feature Description	Benefit
Enforcement point configuration management	Quickly and easily configure and deploy enforcement points	Reduce overall configuration time for large or small network deployments
Flexible policy management	Create encryption rules per enforcement point or per network	Quickly and easily deploy network security policies
Single solution for global data protection	Encryption across different network layers	Flexible configuration and deployment
Monitoring	Actively monitor policies and enforcement point status	View overall status from one centralized location
High availability and scalability	Multiple CipherEngine servers can be deployed	Always on, always ready operations
Group policy creation	Group key distribution	Encryption for multicast, load balanced, or VLAN network topologies

CipherEngine Technical Specifications

Policy Services

- Generates network security policies for:
 - Mesh networks
 - Hub and spoke networks
 - Multicast networks
 - Point-to-point connections
 - IPsec site-to-site connections
 - Ethernet frame encryption for Layer 2 networks
 - Payload encryption for MPLS Layer 3 networks
 - Group policies

Key Services

- Generates encryption keys associated with policies
- Distributes encryption keys to enforcement points
- Re-key management by period (hours) or daily at a pre-determined time

Distribution Services

- 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

Configuration Services

- Import and export CEP configurations
- Save CEP configurations
- Compare saved configuration with running configuration
- Secure CEP firmware upgrades
- Control user roles and passwords
- Monitor CEP status

System Synchronization

- Time synchronization using Network Time Protocol (NTP) version 3, RFC 1035
- Time synchronization on enforcement points using Simple Network Time Protocol (SNTP), RFC 2030

Supported encryption devices

- CEP10, CEP10-R, CEP100, CEP100-XSA, CEP1000
- SG100, SG1002
- ESG100, ESG1002

Minimum System Requirements

Platform

- Intel 3.0 GHz Pentium 4
- 140MB available disk space
- 512MB RAM

Operating System Support

- Microsoft Windows 2003, XP or greater

Client Browser

- Microsoft Internet Explorer 6 or greater

Optional CipherEngine Hardware Server

Processor and Memory

- Dual Core Intel Xeon 3100, 3.0GHz, 1333MHz FSB, 6MB L2 Cache
- 2GB DDR2 PC2 667MHz

Dimensions

- Form Factor: 1U Rack
- Height: 1.68" (4.27 cm)
- Width: 17.60" (44.70 cm)
- Depth: 21.50" (54.61 cm)
- Weight: ~ 26.0 lbs. (11.80kg)

Power

- Single power supply (345W)

Ports

- 2 embedded Gigabit NICs

Internal Storage

- Two 80GB 7200RPM SATA Hard Drives
- Internal slim-line optical drive

Environmental

- Operating Temperature: 10° to 35°C (50° to 95°F)
- Operating Relative Humidity: 20% to 80% (noncondensing) with a maximum humidity gradation of 10% per hour
- Operating Maximum Vibration: 0.25 G's 0-Peak, 3-200 HZ sweep @ 1/2 Octaves/minute
- Operating Maximum Shock: 31G, 2.6ms, 20inch/sec, bottom side
- Operating Altitude: -16 to 3048 m (-50 to 10,000 ft.)

Regulatory

- FCC Part 15 Class A, EN61000-3-2 (A1, A2), : EN61000-3-3, EN55022: 1998 and CISPR 22: 1997 Class A, VCCI Class 1, MIC Class A, BSMI, EN55024: 1998 and CISPR 24: 1997, IEC 61000-4-2
- IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11

Safety

- EN60950-1, First Edition, IEC 60950 1, First Edition (2001), UL/CSA 60950-1, First Edition, EK1-ITB 2000:2003, ISO 9241,ZH1/618:GS-VW-SG7:1997, ISO 13406-2, ISO 7779, MsanPiN 001-96

