Encryption Key Management for Compliance

The Townsend Security Alliance Key Manager is an encryption key manager that is available as a hardware security module (HSM), virtual appliance (VMware), or in the cloud (Microsoft Azure, Amazon Web Services, vCloud, etc.) Alliance Key Manager easily integrates with your databases/applications and enables you to address audit requirements for encryption and key management as found in PCI-DSS, GDPR, HIPAA, and other privacy regulations.


Alliance Key Manager helps organizations meet compliance requirements with FIPS 140-2 compliant encryption key management. The symmetric encryption key management solution creates, manages, and distributes 128-bit, 192-bit, and 256-bit AES keys for any application or database running on any Enterprise operating system (Windows, Linux, IBM i (AS/400), IBM z).
**Features**

- OASIS KMIP (Key Management Interoperability Protocol) 1.1 Specification compliant
- AES 128, 192, 256 bit symmetric keys
- RSA 1024, 2048, 3072, 4096 bit asymmetric keys
- Secure key retrieval with TLS
- Encrypt / Decrypt with AES 128, 192, 256
- Encrypt / Decrypt with AES ECB and CBC modes of encryption
- Maximum keys: Unrestricted
- Maximum clients: Unrestricted
- High availability mirroring for failover and load balancing; mirror selective keys; multiple mirror servers. Active-Active or Active-Passive.
- Key access controls by user and group
- Dual control
- Server management via secure web browser
- Key management via Windows GUI console
- Systems management with syslog-ng, logrotate, etc.
- Tamper-evident case (HSM only)

**Validations**

- FIPS-140-2 Level 1
- AES Validation for 128, 192, 256-bit keys
- RNG validation
- SHA validation
- HMAC validation
- CE, FCC, RoHS

**Hardware Security Module**

1U Rackmount Chassis

- Memory: 8GB DDR4 ECC RAM
- Processor: Intel XEON E3-1220V5
- Storage: 2 x 128GB SSD, RAID, Hot Swap
- Dimensions: 16.8” (W) x 1.7” (H) x 16.8” (D)
- Weight: 37.0 lbs ship weight
- Power: Dual redundant 100/240 VAC (auto-range); 280W, 955 BTU/HR
- Temperature: 10°C ~ 35°C
- Humidity: 8 to 90%, non-condensing
- Compliance: CE, FCC, RoHS, VCCI
- Rails: 1 set of 2 rails, user specified

**Supported Cloud Platforms**

- Amazon Web Services (AWS)
- Microsoft Azure
- Rackspace
- VMware vCloud
- VMware vCloud on AWS

**Supported Virtualization**

- VMware

**Network Management**

- NTP, Syslog-ng, automatic log rotation, secure encrypted and integrity checked backups
Native Database Support

**Microsoft SQL Server**
2008-2017 Enterprise or higher with EKM
(TDE and Cell Level Encryption)

**IBM**
DB2
DB2/400 FIELDPROC

**Other Databases**
MongoDB

Database/Application Support

**Microsoft SQL Server**
2005 All Editions
2008-2017 Express, Standard, Web Editions

**Other Databases**
MySQL, SQLite, etc.

**Other Applications**
Drupal

Languages

Java
Microsoft .NET (C#)
C/C++
Perl
PHP
RPG (IBM i)
COBOL
Python

Contact

Townsend Security
www.townsendsecurity.com
800.357.1019
360.359.4400

Facebook:  www.facebook.com/townsendsecure
Twitter:  www.twitter.com/townsendsecure
YouTube:  www.youtube.com/townsendsecurity