



Bloombase Spitfire KeyCastle Key Life-Cycle Management Security Server

Features

Cryptographic Key Life-Cycle Management

Spitfire KeyCastle Security Server supports key generation, storage and protection, and is equipped with rich cryptographic cipher algorithms for enterprises and organizations meeting stringent information security compliance standards.

Tamper-proof and Tamper-resistant

Spitfire KeyCastle Security Server supports tamper-proof and tamper-resistant NIST FIPS 140-2 level-3 hardware security modules (optional).

High Performance

Cryptographic processing can further improve with optional PKCS#11 hardware cryptographic acceleration modules to minimize performance impact to your mission-critical systems.

Security

NIST FIPS 197 AES encryption and decryption (NIST certificate #1041)

RSA public key cryptography (NIST certificate #496)

SHA-1, SHA-256, SHA-384, SHA-512 hash generation (NIST certificate #991)

Proven keyed-hash message authentication code generation (NIST certificate #583)

Proven random number generator (NIST certificate #591)

Japan NTT/Mitsubishi Camellia encryption and decryption

Chinese National SCB2(SM1), SSF33, SSF28 encryption and decryption

NIST FIPS 46-3 3DES and DES encryption and decryption

RC2, RC4, RC5 and RC6 encryption and decryption

CAST5 encryption and decryption

Twofish and Blowfish encryption and decryption

IDEA encryption and decryption

Serpent and Skipjack encryption and decryption

DSA public key cryptography

MD5 and Chinese National SCH(SM3) hash generation

Pluggable cipher architecture for future cipher upgrade or custom cipher support

Hardware ASIC cryptographic acceleration (optional)

Key Management

Multiple certificate authority (CA) support
Hardware true random (optional) or software pseudo-random key generation, inquiry and deletion
No limitation on number of cryptographic keys managed or scales with system storage infrastructure
Built-in certificate request and revocation check (CRL/OCSP)
X.509 and PKCS#12 DER and PEM key import and export
Key Usage Profiling
RDBMS and Generic LDAP Support and Integration
Industry Standard PKCS#11
NIST FIPS-140-1 level 2 cryptographic module support (optional)
Automatic Certificate Retrieval via HTTP or LDAP
Certificate Validity Check
Certificate Revocation Check via HTTP or LDAP
Certificate Revocation List (CRL)
Certificate Revocation List Distribution Point (CRLDP)
Online Certificate Status Protocol (OCSP)
CRL scheduled download, caching and automatic retry
OCSP scheduled request, caching and automatic retry

Hardware Security Module Support

Gemalto/Schlumberger/Axalto Cryptoflex
Gemalto/Schlumberger/Axalto Cyberflex
Gemalto/Schlumberger/Axalto e-gate
Gemalto/Gemplus GPK
Aladdin eToken PRO
Hifn Express DS cards
Sun Microsystems Crypto Accelerator cards
Siemens CardOS M4
IBM JCOP
Micardo
Oberthur 64k Java-card
OpenPGP 1.0 card
Setcos 4.4.1 cards
RSA SecurID 3100 cards
Giesecke & Devrient Starcos
Eutrom Cryptodensity IT-SEC
Rainbow iKey 3000

Standard Support and Certification

OASIS Key Management Interoperability Protocol (KMIP) compliant
NIST FIPS 140-2 compliant Bloombase Cryptographic Module

Management

Web based management console
Central administration and configuration
User security
Serial console
SNMP v1, v2c, v3
syslog, auto log rotation and auto archive
Heartbeat and keep alive

Client Accessibility

PKCS#11
OpenSSL
Java JCA/JCE
Web services
Plain socket
HTTP/HTTPS
Java HTTP tunneling
Java Remote Method Invocation (RMI)
Native language support: C, C++, Java
PKI-based client authentication and identity management
PKI-based channel encryption

Disaster Recovery

Configurations backup and restore
FIPS 140 hardware security module recovery key or software recovery key vault for settings restoration
Customer-defined recovery quorum (e.g. 2 of 5)
FIPS 140 hardware security module operator key or operator pin for daily Spitfire KeyCastle operation
High-availability option for active-active or active-standby operation
Stateless active-standby failover

Platform Support

Bloombase SpitfireOS
Solaris
HP-UX
OpenVMS
IBM AIX
Linux
Microsoft Windows
Mac OS X

Hardware Support

i386-base architecture

AMD 32 and 64 architecture

Intel Itanium-2 architecture

IBM Power6 architecture

PA-RISC architecture

UltraSPARC architecture

System Requirements

System free memory 512MB

Free storage space 512MB

Warranty and Maintenance

Software maintenance and support services are available.



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Specification Sheet
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