



## Bloombase Spitfire StoreSafe for Storage Replication Security Server

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### Security

IETF IPSec

IPv4 and IPv6 support

Encapsulating security payload (ESP) support

Authentication header (AH) support

Internet key exchange (IKE) support

Industry-proven cryptographic processing engine

NIST FIPS-197 AES encryption and decryption

Japan NTT/Mitsubishi Electric 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

Pluggable cipher architecture for future cipher upgrade or custom cipher support

128, 256, 512, 1024 and 2048 bit public key cryptography

RSA and DSA public key cryptography

SHA-1, MD5 and Chinese National SCH(SM3) hash generation

Shared secret authentication

RSA signature authentication

Hardware ASIC cryptographic acceleration (optional)

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## Key Management

Manual keying or automatic keying

Diffie-Hellman key negotiation

Multiple certificate authority (CA) support

Hardware true random (optional) or software pseudo-random key generation, inquiry and deletion

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

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## 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

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## Standard Support and Certification

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

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## 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

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## 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

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## Platform Support

Bloombase SpitfireOS

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## Hardware Support

i386-base architecture  
AMD 32 and 64 architecture  
Intel Itanium-2 architecture  
IBM Power6 architecture  
UltraSPARC architecture  
StrongARM architecture

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## System Requirements

System free memory 1GB

Free storage space 1GB

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## Warranty and Maintenance

Software maintenance and support services are available.



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Specification Sheet  
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