

Bloombase Spitfire Link Encryptor

Enterprise Network Security Server / Virtual Appliance

Network Data at Risk

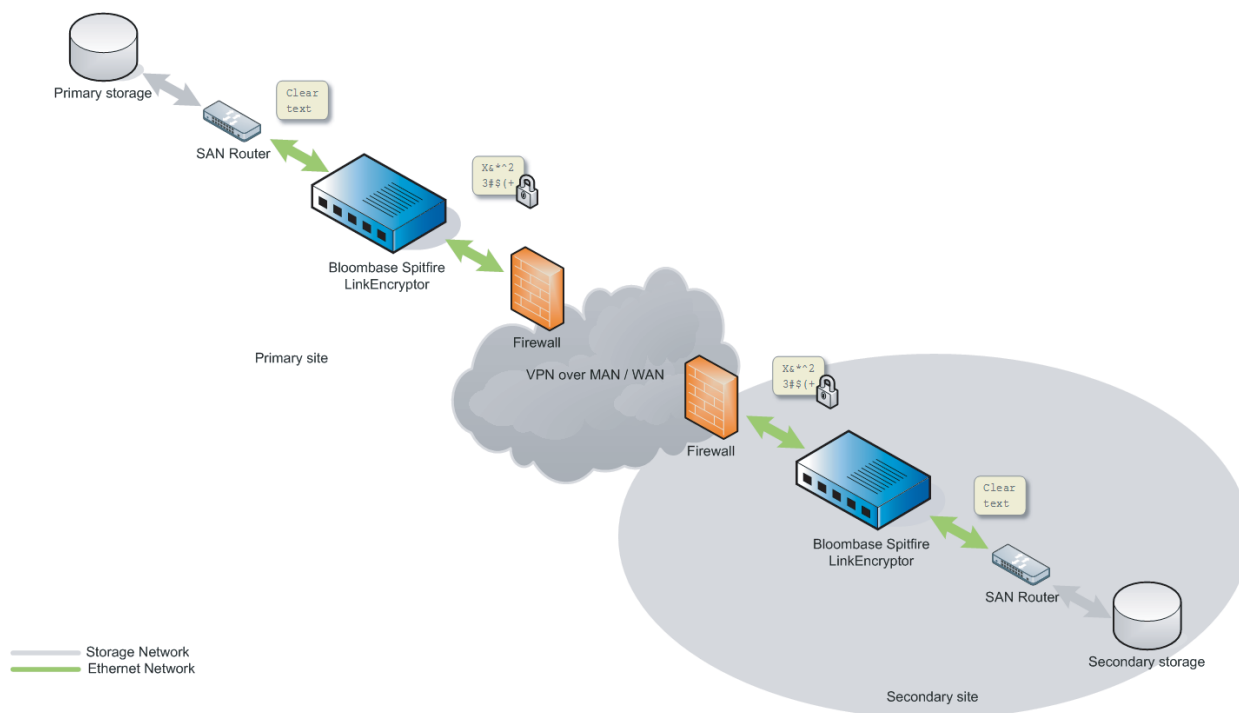
Enterprises are intensely concerned with high availability of their IT applications and services to operate their real-time business globally around the clock non-stop. Highly available and highly accessible real time enterprise core data is what businesses of today need. The availability of sensitive business data challenged by various disasters including physical data-center attacks, network failure, service and power outage, in today's IT risk management, can easily be mitigated by effective implementation of redundancy such as server clustering, data replication, data center redundancy, etc.

The rise of data service replication solves business continuity seemingly, however, it intensifies various risks of unauthorized data exposure both during data transmission over the wire on metropolitan area network (MAN) or wide area network (WAN) and data persisted on a remote or outsourced site (real time storage data replication).

To securely bridge disaster recovery sites, remote data centers and implement private extranet amongst business partners and regional networks, Spitfire Ethernet Encryptor enables companies to deploy a secure data in-flight and at-rest network at no hassle. Spitfire Ethernet Encryptor is a high performance transparent network encryption server which acts as network gateway to encrypt sensitive data for outbound communications, whereas to decrypt ciphered contents for inbound communications. Deployment is easy and guarantee transparent to existing systems and application.

Secure Real-time Storage Data Replication

Spitfire Ethernet Encryptor can be deployed in a real-time storage data replication environment such as in below visual. Delta changes



Bloombase Spitfire LinkEncryptor runs as a network appliance to secure site-to-site real-time replication of storage data over metro-area-network (MAN) or wide-area-network (WAN)

committed to primary storage sub-system are picked up by SAN router at primary site and packaged into IP data to be synchronized to remote secondary site for data mirroring. Spitfire Ethernet Encryptor works as a charm to encrypt outbound sensitive storage data before they are traversed through the unsecure MAN/WAN via SONET or dark fiber.

Another Spitfire Ethernet Encryptor resides as gateway to the destination site, decrypts incoming ciphered SAN delta changes before they are applied to the disaster recovery storage system.

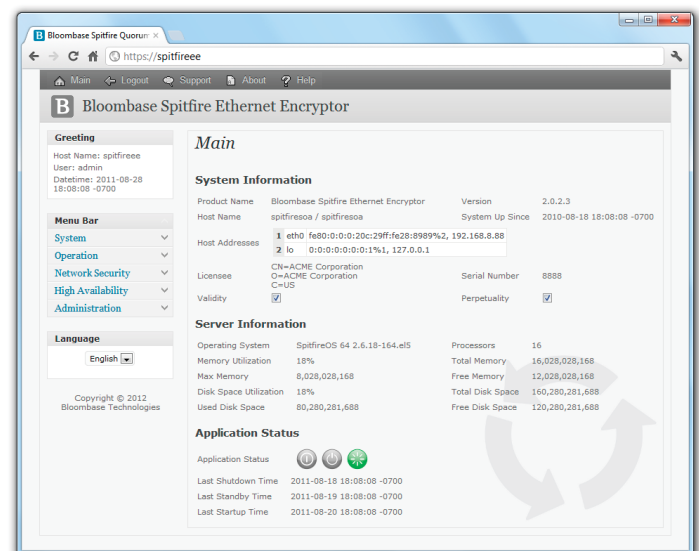
Bridging Multi-site Application Network

Similar to data mirroring application, for multi-site or heterogeneous extranet environment where sensitive data transfer is a critical concern, Spitfire Ethernet Encryptor can be deployed with secure key sharing achieving wirespeed private communications with full confidence on business partner identity and business data integrity.

Technical Specifications Highlights

Cryptographic Security

- NIST FIPS 140-2 validated cryptographic module
- 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
- RSA, AES, Camellia, 3DES, DES, CAST5, RC2 encryption
- 512/1024/2048-bit long X.509 asymmetric key



Bloombase Spitfire Link Encryptor configuration and administrations are done remotely by web-based management console

Network Communications Protocols

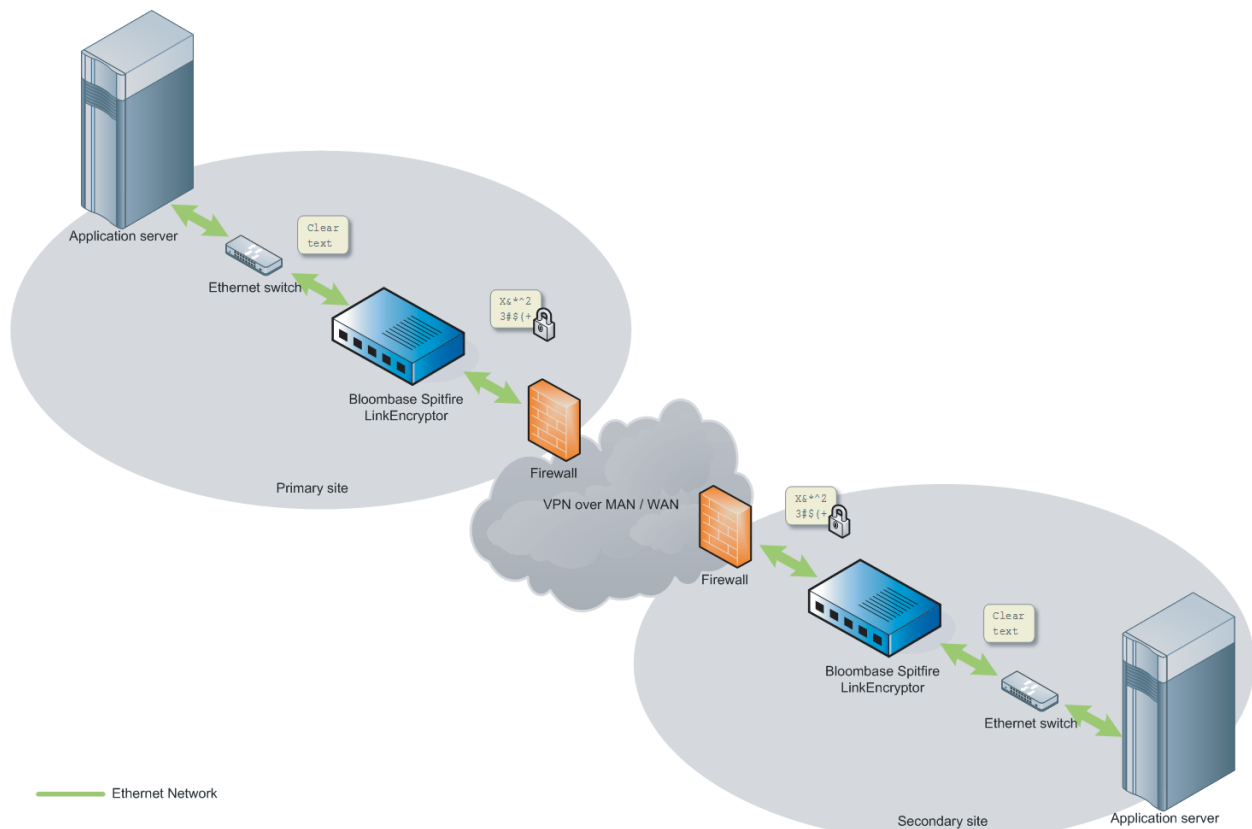
- IPv4 and IPv6 support

Network Management

- SNMP (v1, v2c, v3)
- syslog
- log rotation and auto-archive

System Administration

- Secure web-based and serial console



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