



BN5000 SSL Load Balancing Appliance

Key Benefits

- ▶ Industry – leading SSL price / performance
- ▶ Performance scaling removes the need to ration security
- ▶ Maximize network performance and efficiency by offloading SSL with a load balancer
- ▶ Minimal rack space (1U)
- ▶ Fortified security via strong encryption support

The Britestream SSL Load Balancing Appliance is a dedicated, high performance SSL appliance with built-in intelligent load balancing providing a secure, scalable, and simple solution to protect data in transit efficiently. Britestream solves the computationally intensive Secure Socket Layer (SSL) encryption and decryption by offloading 100% SSL via the appliance, maximizing the performance of every server within the network.

Built on Britestream's award-winning SSL technology, specifically designed to offload 100% of all SSL traffic, securing web-based application servers just got easier, faster, and more scalable with this plug-and-play load balancing SSL security appliance.



With the ability to manage 5,000 SSL transactions per second per 1U of rack space, the Britestream BN5000 optimizes server and load balancing resources and provides a cost effective solution for any size data center.

Exceptional Performance / Price

The Britestream SSL Load Balancing Appliance is a dedicated, high performance appliance devoted to securing data using industry standard SSL / TLS. To offer a fast, resource-friendly means of distributing traffic efficiently, Britestream combines security and load balancing into one appliance. Because of this self-sufficient design, existing front-end load balancing appliances also benefit by offloading the computationally intense SSL traffic to enable improved efficiency and higher performance within the network. The BN5000 is ideal for economically alleviating SSL demands currently managed by over-taxed appliances and servers resulting in increased network performance and faster customer response times.

Simple to Manage

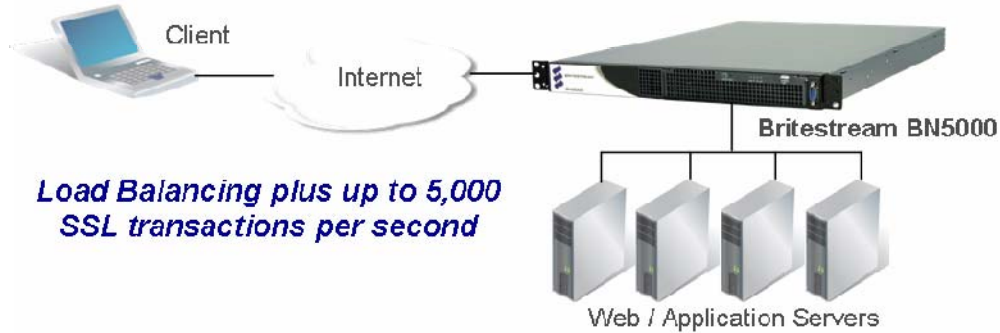
Britestream provides easy to deploy, out-of-the-box configuration tools including web-based administration and an easy-to-use GUI interface for simple and fast installation and maintenance.

Fortified Security

The Britestream Security Appliance supports advanced encryption while storing private keys and certificates within tamper resistant hardware. The result is significantly stronger security than software-only implementations, which can be susceptible to corporate identity hijacking, root operating system access, timing attacks, encryption key exposure, and more.



Typical Deployment Scenario:



Specifications

Scalability

- Up to 5,000 SSL TPS or 432M transactions per day
- Up to 50,000 concurrent SSL connections
- Encrypted throughput: 350 Mbps (FDX)
- 254 Certificates and associated keys
- HTML and header rewrite

High Availability

- Compatible in load balancing / switch fail-over configured environments
- Supports active/passive appliance redundancy

Server Load Balancing

- Round Robin and Weighted Round Robin
 - By request
 - By traffic
- Up to 254 virtual servers

Administrative Console

- Secure SSL web browser based console
- Access control via user log-in & password
- Serial port local console (CLI)
- Remote SSH console (CLI)

Client Certificate Authentication

- HTTP header injection of client certificate information

Strong Security

- TCP, SSL 3.0, TLS 1.0
- Full offload for SSL and TLS protocol
- RSA key sizes: 1K, 2K, 4K
- Encryption: ARC4, DES, 3DES, AES
- Hash algorithms: MD5, SHA1, HMAC
- Hardware based TCP termination

Management/Monitoring

- Alert log file (using syslog)
- SNMP support (Britestream-provided MIB)
- Local access via serial port local console

Physical

- 1U standard rack-ready form factor
- (3) 10/100/1000 Ethernet ports
- 1 Serial Port

Temperature

- Operating 5° to 35°C
- Storage -40° to 70°C

Regulatory & Safety

- UL 60950
- FCC 47 CFR Part 15, Class A
- EN55022 and EN55024

| Models | BN5000-SSL | BN5000-LB1 | BN5000-LB2 |
|--------|-----------------------|---|---|
| | SSL offload appliance | Load Balancer (up to 10 servers) with SSL offload | Load Balancer (more than 10 servers) with SSL offload |

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