

BIG-IP Local Traffic Manager

PRODUCT OVERVIEW



“With BIG-IP LTM, we get all the functionality we need to optimize performance, while avoiding all kinds of capital and operating expenses.”

Tom Putnam, Operations Manager, MSN Games

Streamline Application Delivery for an Agile Infrastructure

Key benefits

- Easily deploy applications and ensure availability
- Accelerate your applications up to 3x
- Secure your applications, network, and data
- Reduce server load, bandwidth usage, and related costs
- Get full control of application traffic to handle changing business, infrastructure, and application demands

Your network’s job is to deliver applications and services, but as your business needs change and grow, it becomes more complex and more expensive for your infrastructure to keep up with these demands.

BIG-IP® Local Traffic Manager™ (LTM) turns your network into an agile infrastructure for application delivery. It’s a full proxy between users and application servers, creating a layer of abstraction to secure, optimize, and load balance application traffic. This gives you the flexibility and control to add applications and servers easily, eliminate downtime, improve application performance, and meet your security requirements.

Easily deploy applications and ensure availability

BIG-IP LTM gives you the industry's most advanced load balancing and application health monitoring capabilities. F5 iApp™ enables you to easily deploy and manage applications using user-defined application-centric configuration templates. The associated application related statistics provide complete visibility into the health and performance of your apps for faster troubleshooting and resolution of issues.

Accelerate your applications up to 3x

BIG-IP LTM reduces traffic volumes and minimizes the effect of client connection bottlenecks as well as WAN, LAN, and Internet latency to improve application and replication performance up to 3x. You can achieve additional performance increases with BIG-IP WebAccelerator and BIG-IP WAN Optimization Manager.

Secure your applications, network, and data

From network firewall and protocol-level security to application attack filtering, BIG-IP LTM deploys a suite of security services to protect your most precious resources—the applications that run your business. Add-on modules for secure access, spam reduction, and application protection provide advanced security options.

Reduce servers, bandwidth, and management costs

Advanced TCP connection management, TCP optimization, and server offloading enable you to optimize the utilization of your existing infrastructure—tripling server capacity and reducing bandwidth costs by up to 80 percent. BIG-IP LTM helps you simplify system management by consolidating security, acceleration, and availability in one easy-to-manage platform. By using

fewer servers, less bandwidth, less power, and less cooling, while reducing the time spent managing your infrastructure, you can significantly reduce your operational costs.

Take control over application delivery

The F5 TMOS® platform gives you complete control of the connection, packets, and payload for applications. Using F5's event-driven iRules®, you can customize how you intercept, inspect, transform, and direct inbound and outbound application traffic. The F5 iControl® API makes it easy to integrate with third-party management systems.

Device Service Clustering provides flexible high-availability scaling and configuration syncing of live application traffic among a cluster of active or standby BIG-IP devices.

BIG-IP LTM features

Availability

- Comprehensive load balancing
- In-band server health monitoring
- Customized health monitoring
- Application connection persistence
- Device Service Clustering for HA scaling and configuration syncing

Optimization

- Hardware accelerated SSL offload
- HTTP compression and caching
- HTTP server offload (request multiplexing)
- TCP optimization
- L7 QoS Rate Shaping™
- WAN optimization services
- Performance dashboard
- IPv6 Gateway™ (NAT64 support)

Security

- Network firewall
- DoS attack and SYN flood protection

- Application attack filtering
- HTTP header sanitization
- Response error handling

Management

- iApp for app-level config and management
- Analytics for app visibility and reporting
- High speed logging
- iRules and iControl
- Web-based management GUI

Add-on modules

- BIG-IP® Access Policy Manager™
- BIG-IP® Application Security Manager™
- BIG-IP® Global Traffic Manager™
- BIG-IP® Link Controller™
- BIG-IP® Message Security Module™
- BIG-IP® Protocol Security Module™
- BIG-IP® WAN Optimization Manager™
- BIG-IP® WebAccelerator™

Learn more

For more information about BIG-IP LTM, use the search function on f5.com to find these resources.

Datasheets

[BIG-IP Local Traffic Manager](#)

[BIG-IP Local Traffic Manager VE](#)

[BIG-IP Add-On Modules](#)

[BIG-IP System Hardware Datasheet](#)

White papers

[Load Balancing 101: The Evolution to ADCs](#)

[iApp in the BIG-IP System](#)

[The F5 Dynamic Services Model](#)

[Achieving Enterprise Agility in the Cloud](#)

Case studies

[Rackspace Hosting Links Dedicated Servers to Cloud for Maximum Scalability and Flexibility](#)

[SaaS Provider RelayHealth Delivers Innovative Healthcare Applications with F5 Solutions](#)

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