

BIG-IP Local Traffic Manager

PRODUCT OVERVIEW



“With BIG-IP LTM, we’re dynamically managing traffic, moving users seamlessly among EpicCare servers without interruption, and providing high uptime and performance for clinicians.”

Sean Graham, Network Architect, Kettering Health Network

Application Delivery with Programmable Infrastructure

Key benefits

- Deliver applications rapidly and reliably with HTTP 2.0
- Transition to SDN and cloud networks
- Automate and customize with programmable infrastructure
- Easily deploy and manage applications
- Secure your critical applications

Applications drive innovation and profitability, allowing your business to leverage trends such as cloud computing, mobility, and software-defined networks (SDNs). Your IT department depends on your network infrastructure to meet the challenges of today—and tomorrow.

F5® BIG-IP® Local Traffic Manager™ (LTM) helps you deliver applications to your users in a reliable, secure, and optimized way. You get the extensibility and flexibility of application services with the programmability you need to manage your physical, virtual, and cloud infrastructure. With BIG-IP LTM, you have the power to simplify, automate, and customize applications faster and more predictably.

Deliver applications rapidly and reliably

Optimize for today's web applications with HTTP 2.0 to ensure access to the applications your customers and users need—whenever they need them. BIG-IP LTM gives you the industry's most advanced load balancing and application health monitoring. Applications are not just always on, but are easier to scale and manage.

Customize and automate with programmable infrastructure

Programmable infrastructure gives you the flexibility to build and adapt to your needs. Control your applications—from connection and traffic to configuration and management—with F5's unique TMOS®

platform, which includes native protocol support, a management API, and an event-driven scripting language.

Transition to SDN and cloud networks

BIG-IP® SDN Services simplifies your transition to a cloud network architecture by providing network virtualization for consistent application delivery services. Decoupling virtual networking from the underlying physical network enhances overall system flexibility, scalability, and resilience.

Easily deploy and manage applications

BIG-IP LTM includes F5 iApps® Templates, a powerful feature that enables you to deploy, manage, and analyze application

services as a whole rather than as individual configurations and objects. iApps gives you greater visibility into and control over application delivery—and helps you deploy in hours rather than weeks. This application-centric approach aligns the network with your applications and adapts application delivery to business needs.

Secure your critical applications

BIG-IP LTM delivers an always-on SSL solution to protect users without compromising on performance, scalability, or visibility. BIG-IP LTM provides visibility into encrypted traffic for your IT department, for policy enforcement, and for services like content filtering, data loss prevention, and monitoring.

BIG-IP LTM features

Application Traffic Management

- Intelligent load balancing
- Application protocol support (TCP, HTTP 2.0, SPDY 3.1, SSL, SIP, FIX, MS SQL, etc.)
- Application health monitoring and connection state management
- F5 Analytics for application visibility and reporting

Application Delivery Optimization

- Symmetric adaptive compression
- RAM cache and compression
- Bandwidth controller
- TCP optimization
- SPDY and HTTP 2.0 gateway

Secure Application Delivery

- SSL connection and session mirroring
- SSL crypto offload for hybrid deployments
- SSL/TLS encryption offload
- Algorithm agility (PFS, GCM, ECC, DSA, RSA, Suite B)
- Internal/network/cloud HSM (FIPS 140-2)
- SSL visibility (inbound/outbound)

Programmable Infrastructure

- F5 iRules® for data plane programmability
- F5 iCall™ for event-based, control-plane scripting
- iApps for app-level configuration management and deployment
- F5 iControl® management API (SOAP, REST)
- iCheck for programmable monitors

Scalable Infrastructure

- On-demand and all-active application clustering
- Operational scaling (multi-tenant and virtualization)
- Advanced routing (BGP, RIP, OSPF, ISIS, BFD)
- SDN Services license (VXLAN, NVGRE)

Add-On Modules

- BIG-IP® Access Policy Manager®
- BIG-IP® Application Acceleration Manager™
- BIG-IP® Advanced Firewall Manager™
- BIG-IP® Application Security Manager™
- BIG-IP® Global Traffic Manager™

Learn more

For more information about BIG-IP LTM, visit f5.com to find these resources.

Datasheets

- [BIG-IP Local Traffic Manager](#)
- [BIG-IP Add-On Modules](#)
- [BIG-IP System Hardware](#)
- [BIG-IP Virtual Editions](#)

White papers

- [Synthesis Application Services](#)
- [Load Balancing 101: The Evolution to ADCs](#)
- [Top Considerations When Choosing an ADC](#)
- [The Programmable Network](#)
- [VXLAN and the BIG-IP Platform](#)

Case studies

- [Varolii: SaaS Provider Ensures High Uptime and Resiliency for Critical Customer Apps with F5](#)
- [Kettering Health Network Achieves Optimal Performance of EpicCare EMR with F5 Solution](#)
- [Pandora Scales to Serve Tens of Millions of Internet Radio Users with F5 Solution](#)

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Solutions for an application world.