Take a Flexible and Adaptable Approach to Application Delivery

F5® BIG-IP® devices work on a modular system, so you can add new functions as necessary to quickly adapt to changing application and business needs.

F5 BIG-IP® Local Traffic Manager™ (LTM) helps you deliver your applications to users in a reliable, secure, and optimized way. By making intelligent traffic decisions that adapt to the changing demands of your applications, BIG-IP LTM ensures their consistent availability and scalability. With BIG-IP LTM, you have the power to simplify, automate, and customize applications faster and more predictably.

The following modules are available for the BIG-IP system, including BIG-IP LTM.

**BIG-IP Access Policy Manager**

BIG-IP® Access Policy Manager™ (APM) is a flexible, high-performance access and security solution that provides unified global access to your applications and network. By converging and consolidating remote access, LAN access, and wireless connections within a single management interface, and providing easy-to-manage access policies, BIG-IP APM can help you free up valuable IT resources and scale cost-effectively.

**Key benefits**

- **Provide unified global access**
  Enable BYOD, identity federation, secure accelerated remote access, secure web gateway, virtual desktop infrastructure (VDI), Exchange migration, SharePoint deployments, and web access management.

- **Centralize access control**
  Gain a simplified, central point of control to manage access to applications by dynamically enforcing context-aware policies.

- **Ensure superior security**
  Protect your organization from data loss, virus infection, and rogue device access with comprehensive endpoint capabilities.

- **Obtain flexibility, high performance, and scalability**
  Support all of your users easily, quickly, and cost-effectively.

BIG-IP APM is available on the BIG-IP platform as a standalone product, a virtual edition, or as an add-on module for BIG-IP Local Traffic Manager.
BIG-IP Advanced Firewall Manager

F5 BIG-IP® Advanced Firewall Manager™ (AFM) is a high-performance, stateful, full-proxy network firewall designed to guard data centers against incoming threats that enter the network on the most widely deployed protocols—including HTTP/S, SMTP, DNS, and FTP. By aligning firewall policies with the applications they protect, BIG-IP AFM streamlines application deployment, security, and monitoring. With its scalability, security, and simplicity, BIG-IP AFM forms the core of the F5 application delivery firewall solution.

**Key benefits**

- **Scale to meet network demand**
  Meet demanding data center scalability needs with a solution built on top of F5’s proven TMOS® architecture, hardware systems, and virtual editions.

- **Protect with a full-proxy firewall**
  Terminate incoming client connections and inspect them for security threats, before forwarding them on to the server.

- **Streamline firewall deployment**
  Simplify security configuration with firewall policies oriented around the applications themselves—and speed up app deployment.

- **Customize reporting for visibility**
  Log events at high speeds and define per-application logging configuration, allowing flexibility in log destinations and information logged.

- **Inspect SSL sessions**
  Fully terminate SSL connections to identify potentially hidden attacks—and do this at high scale and high throughput.

- **Ensure application availability**
  Provide protection against 38 DoS vectors to ensure application availability, with detailed visibility into attack conditions. For certain platforms, SYN flood protection is handled in the hardware.

BIG-IP Application Acceleration Manager

F5 BIG-IP® Application Acceleration Manager™ (AAM) combines the application delivery features previously available in BIG-IP® WAN Optimization Manager™ (WOM) and BIG-IP® WebAccelerator™. BIG-IP AAM overcomes network, protocol, and application issues to help you meet application performance, data replication, and disaster recovery requirements presented by cloud, mobile applications, and video distribution. By offloading your network and servers, BIG-IP AAM decreases the need for additional bandwidth and hardware. Users get fast access to applications, and you gain greater revenue and free up IT resources for other strategic projects.

**Key benefits**

- **Improve the user experience**
  Improve end user experience through multiple optimization technologies applied at all layers of the application delivery chain.

- **Optimize data center efficiency**
  Consolidate devices and services to deliver optimized apps. Reduce the application load from servers and the network by offloading CPU-intensive processing tasks.

- **Streamline Application Delivery Optimization**
  Quickly support and optimize legacy and emerging protocols/standards (SPDY, FTP, UDP, HLS). Optimize delivery of any application content to any device without recoding apps.
BIG-IP Application Security Manager

BIG-IP® Application Security Manager™ (ASM) is a flexible web application firewall that secures web applications in traditional, virtual, and private cloud environments. BIG-IP ASM provides unmatched application and website protection, complete information about attacks from within the user interface, and compliance for key regulatory mandates. BIG-IP ASM is a key part of the F5 application delivery firewall solution, which consolidates traffic management, network firewall, application access, DDoS protection, SSL inspection, and DNS security.

Key benefits

Ensure app security and availability
Get comprehensive attack protection from L7 DDoS, SQL injection, and OWASP Top Ten, and secure the latest interactive JSON payloads and AJAX applications.

Reduce costs and enable compliance
Achieve security standards compliance with built-in application protection.

Get out-of-the-box app security policies
Provide protection with pre-built rapid deployment policies and minimal configuration.

BIG-IP Global Traffic Manager

F5 BIG-IP® Global Traffic Manager™ (GTM) distributes DNS and user application requests based on business policies, data center and network conditions, user location, and application performance. BIG-IP GTM delivers F5’s high-performance DNS Services with visibility, reporting, and analysis; scales and secures DNS responses geographically to survive DDoS attacks; delivers a complete, real-time DNSSEC solution; and ensures global application high availability.

Key benefits

Scale DNS to more than 10 million RPS with a fully-loaded chassis
BIG-IP GTM dramatically scales DNS to more than 10 million query RPS and controls DNS traffic. It ensures that users are connected to the best site, and delivers On-Demand Scaling for DNS and global apps.

Gain control and secure global application delivery
Route users based on business, geolocation, application, and network requirements to gain flexibility and control. Also ensure application availability during DNS DDoS attacks or volume spikes.

Improve application performance
Send users to the site with the best application performance based on application and network conditions.

Deploy flexibly, scale as you grow, and manage your network efficiently
BIG-IP GTM Virtual Edition (VE) delivers flexible global application management in virtual and cloud environments. Multiple management tools give you complete visibility and control; advanced logging, statistics and reporting; and a single point of control for your DNS and global app delivery resources.
BIG-IP Link Controller

Your ISP connections are your link to the outside world. Having multiple connections can increase availability and performance, but managing multiple links can be difficult.

BIG-IP® Link Controller™ puts the management of these links under your control. It monitors the performance and availability of each link and directs connections—both inbound and outbound—over the best possible link. It also improves application performance by prioritizing and optimizing traffic. BIG-IP Link Controller gives you the tools to direct traffic over the most cost-effective connections first so you can keep your ISP costs at a minimum.

The result is more effective use of multiple ISP connections, for higher reliability, better performance, and lower costs.

Key benefits

- Eliminate downtime caused by link and ISP failures
  Monitor the health and availability of each connection to dynamically direct users around ISP outages.

- Improve application performance
  Route users over the best link and optimize the connection to provide the best application experience.

- Control ISP costs
  Aggregate inexpensive links and create policies to control your bandwidth costs.

BIG-IP Protocol Security Module

BIG-IP® Protocol Security Module™ (PSM) provides powerful security services for HTTP(s), SMTP, and FTP at BIG-IP system speed. BIG-IP PSM is perfect for environments that require more than layer 3 and layer 4 inspection services, where the expertise and management overhead needed to deploy a full-featured web application firewall isn’t possible, or where there is a need to secure other protocols. Protocol enforcement services can be implemented on a per-virtual-server basis and configured within a matter of minutes.

Key benefits

- Broad protection from HTTP attacks
  Safeguard your brand by filtering out attacks related to web server vulnerability, request smuggling, buffer overflow, and command injection and masking sensitive data.

- Centralized FTP security management
  With centralized configuration of FTP servers, BIG-IP PSM provides simplified security management and comprehensive FTP security.

- Spam-blocking SMTP security
  BIG-IP PSM stops spam at the perimeter by performing DNS checks and blocking dangerous SMTP commands.
F5 Services
F5 Services offers world-class support, training, and consulting to help you get the most from your F5 investment. Whether it’s providing fast answers to questions, training internal teams, or handling entire implementations from design to deployment, F5 Services can help you achieve IT agility. For more information about F5 Services, contact consulting@f5.com or visit f5.com/services.

More Information
To learn more about BIG-IP Modules, use the search function on f5.com to find these and other resources.

Datasheets
BIG-IP Access Policy Manager
BIG-IP Advanced Firewall Manager
BIG-IP Application Acceleration Manager
BIG-IP Application Security Manager
BIG-IP Global Traffic Manager
BIG-IP Link Controller
BIG-IP Local Traffic Manager

White papers
Unified Application and Data Delivery
TMOS: Redefining the Solution
F5 iApps: Moving Application Delivery Beyond the Network
The F5 Dynamic Services Model
A New Firewall for the Data Center