



“Now, for the first time, we can create geographically diverse applications that live on both sides of the country.”

Scott Lokey, Manager of Network Engineering, RelayHealth

## Optimize Application Delivery Across Your Globally Distributed Data Centers

### Key benefits

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| <ul style="list-style-type: none"><li>· Ensure application availability and scale DNS performance 10x</li><li>· Secure your DNS infrastructure</li></ul> | <ul style="list-style-type: none"><li>· Improve application performance by directing traffic based on business needs</li><li>· Adaptable DNS for customized responses</li></ul> | <ul style="list-style-type: none"><li>· Deploy flexibly for virtualized environments</li><li>· Manage your complex distributed network simply and efficiently</li></ul> |
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Deploying multiple data centers helps protect your business from site outages and improves application performance. Securing DNS infrastructure from the latest DDoS attacks, and protecting DNS query responses from cache poisoning, helps keep your online business running and viable. But to fully achieve these goals, organizations need an efficient way to monitor DNS infrastructure and application health.

F5® BIG-IP® Global Traffic Manager™ (GTM) distributes user application requests based on business policies, data center and network conditions, user location, and application performance. BIG-IP GTM enables F5's high-performance DNS Services, scales DNS responses geographically to survive DDoS attacks, and ensures global application high availability.

## Ensure app availability and scale DNS

BIG-IP GTM helps you create a strong disaster recovery and business continuity plan by ensuring that users are always connected to a site where the application is available. In addition to performing comprehensive health checking of the entire infrastructure, BIG-IP GTM minimizes downtime and improves the user experience by determining health at the application layer for every user. With DNS Express™, BIG-IP GTM delivers high-speed DNS query responses, offloads DNS, and scales responses up to 10x, enabling DNS DDoS attack absorption.

## Control and secure global applications

Every application and business is different. Using F5 iRules® scripting language, you can customize the dynamic distribution of global traffic to route users based on business requirements as well as the performance,

availability, and security of the application. BIG-IP GTM integrates with SNMP agents and third-party devices using the F5 iControl® API to enable easy system management as part of your entire infrastructure. And by providing protection against DNS-based attacks, BIG-IP GTM adds an extra layer of security and availability for your applications. BIG-IP GTM also includes IP Anycast integration, enabling multiple devices to receive queries using the same IP address. These solutions ensure application availability during volume spikes and enable a DNS firewall.

## Improve application performance

BIG-IP GTM enables you to send users to a site that will give them the best application experience. It uses a range of different load balancing methods and intelligent monitoring for each specific application and user. Traffic is routed according to your business policies and current network and user conditions.

BIG-IP GTM includes an accurate, granular geolocation database, giving you control of traffic distribution based on the user's location. By providing persistence for stateful applications, BIG-IP GTM helps you eliminate broken sessions and corrupted data. You can also add adaptable and dynamic DNS with DNS iRules.

## Simplify management and deploy flexibly

BIG-IP GTM Virtual Edition (VE) delivers flexible global application and DNS management in VMware deployments. The BIG-IP GTM web-based user interface gives you complete visibility and a single point of control for all of your resources across multiple, globally distributed sites. BIG-IP GTM reduces DNS risks and administrative overhead with ZoneRunner™, an integrated zone file management tool that streamlines DNS zone file management.

## BIG-IP GTM features

### Global traffic distribution

- Automatic site-to-site failover
- One-click manual failover
- Dynamic data center load balancing
- Geographic distribution
- Global persistence
- IPv6 support
- High-speed DNS query response with DNS Express
- Single IP address for multiple devices with IP Anycast integration
- Flexible deployments in virtual environments
- DNS IPv6 to IPv4 translation
- Secure DNS with DNS firewall services

### Comprehensive monitors

- Internet performance
- Device performance
- Application-specific
- Composite QoS

### Simplified management

- Distributed application management
- Configuration synchronization
- DNS zone file management
- iRules scripting language
- DNS customization with DNS iRules
- iControl API

### Optional features

- DNSSEC with SHA-2 support
- F5 DNS Services for BIG-IP LTM

## Learn more

For more information about BIG-IP GTM, use the search function on [f5.com](http://f5.com) to find these resources.

### Datasheet

[BIG-IP Global Traffic Manager](#)

### White papers

[Distributing Applications for Disaster Planning and Availability](#)

[DNSSEC: The Antidote to DNS Cache Poisoning and Other DNS Attacks](#)

[F5 and Infoblox DNS Integrated Architecture: Offering a Complete Scalable, Secure DNS Solution](#)

### Case study

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

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