

WANJet®

WANJet 500® is an appliance-based solution that delivers LAN-like application performance over the WAN. WANJet 500 is based on the unique F5 TMOS architecture, the iControl development API, and iRules capabilities. WANJet 500 accelerates applications including: file transfer, email, client-server applications, data replication, and others—resulting in predictable, fast performance for all WAN users.

WANJet 500 is positioned in symmetric implementations for data center to data center optimizations and features fault tolerance and scalability for up to 20,000 optimized connections. WANJet solutions work seamlessly across all wide-area networks including dedicated links, IP VPNs, frame relay, and even satellite connections.

Breakthrough Application Performance and Lower IT Costs

WANJet delivers unrivaled application performance and reduced IT expenses. WANJet is a session layer proxy and provides specific optimizations for TCP (local acknowledgement, fast connection setup, persistent WAN connections, advanced congestion control routines, adaptive window management, SACK, timestamps, and optimized retransmission strategies) and CIFS. Additionally, F5 supports RTP traffic by performing automatic differentiation between voice and video.

Expands WAN Capacity and Application Throughput

F5 Transparent Data Reduction (TDR) is a revolutionary networking technology that ensures high-speed application performance and reduces the amount of data transferred over the WAN by up to 95 percent. TDR delivers significantly more bandwidth for applications and effectively expands WAN capacity above specified rates.

Accelerates Data Replication Traffic across the WAN

The optimization, QoS, and security features of WANJet 500 are ideally suited for symmetric deployment in data replication implementations, such as EMC SRDF, and can significantly improve data replication performance and data security between replication data centers.

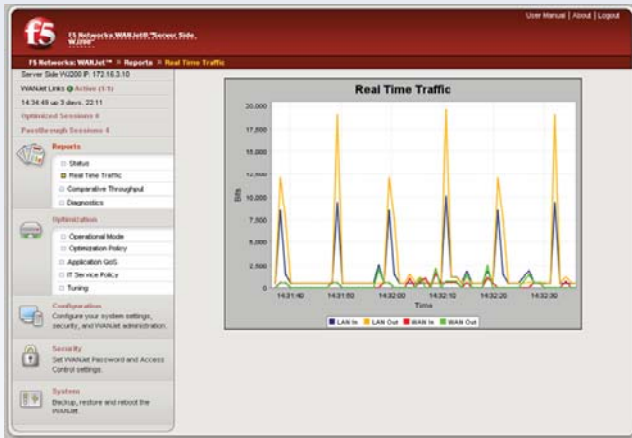
Eliminates Negative Effects of Distance

When application performance suffers, IT managers often assume that adding bandwidth will solve the problem. Unfortunately, because of the way the TCP protocol works, adding bandwidth is often ineffective. TCP throughput degrades significantly on the WAN, particularly on high-latency, intercontinental links.

To overcome these inherent protocol limitations, WANJet employs adaptive TCP optimization (which combines session-level application awareness, persistent tunnels, selective acknowledgements, error correction, and optimized TCP windows) to fully utilize available bandwidth. This enables WANJet to adapt, in real time, to the latency, packet loss, and congestion characteristics of WAN links, and accelerate virtually all application traffic.

Key Benefits:

- Provides LAN-like performance on the WAN
- Accelerates applications and optimizes the WAN
- Reduces IT costs
- Improves return on investment
- Provides configurable site-to-site encryption using SSL
- Improves ease of deployment



The WANJet web UI provides real-time feedback

Makes the WAN Faster and Safer

With WANJet appliances' site-to-site SSL encryption, IT managers no longer need to choose between fast and safe. Applications communicate at high speed, over any WAN, in full privacy. Users experience transparent operation and high speed, IT managers rest easy knowing that corporate data is protected, and organizations ensure compliance with regulations such as HIPAA and Sarbanes Oxley.

Ensures Predictable Performance

WANJet appliances' QoS feature enables IT managers to tune their global networks for round-the-clock application performance. IT resources are logically grouped and managed according to business rules. As a result, bandwidth is preserved for real-time applications like VoIP. This translates into a predictable user experience for application performance, regardless of WAN conditions, time of day, or geographical location.

Provides Insight to WAN/Application Behavior

WANJet includes an intuitive, web-based administration and management interface. Administrators can manage appliances and perform a wide variety of system level tasks such as creating custom optimization policies, diagnosing and fixing network connectivity issues, viewing real-time traffic flows, and exporting detailed performance statistics.

WANJet Features



WANJet 500

General

- Supports up to 20,000 optimized connections
- Accelerates application performance on WAN links up to 622 Mbps
- Reduces data transferred over the WAN by up to 95 percent
- High performance RAM and Disk (TDR 2) optimization
- Optimizes all IP-based traffic (HTTP, TCP, UDP, etc.)
- SSL encrypts traffic between appliances (site-to-site)
- Enables next-generation services such as VoIP
- Application proxy support for CIFS

High Availability

- Fail-to-Wire (automatic bypass if device is powered off or fails)
- Supports VRRP (RFC 3768) and HSRP (RFC 2281) network configurations

Deployment Modes

- In-Line (installed in data path between LAN switch and WAN router)
- One-Arm via WCCPv2 (single connection to switch or router)
- One-Arm via static IP policy routes (single connection to switch or router)
- On-LAN (single connection to a switch, deployed as a standard host)

Management

- Integration with F5 Enterprise Manager for centralized management and reporting
- Secure web-based user interface
- Secure remote access via HTTPS
- RADIUS authentication
- LCD front panel for initial configuration

Reporting

- Detailed for transmitted and received traffic reports
- Actual throughput and network capacity gains
- Customizable per hour, week, month, and year views
- Real time throughput and connection-count graphs
- All historical data exportable to Excel using CSV

Logging

- NetFlow
- Syslog
- SNMPv3 (RMON2 and private MIB)
- Data export to CSV format



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