

FatPipe QoS

Avoid network congestion by creating rules based on application, port or IP to achieve the highest level of efficiency and precise control of IP traffic

*GRANULAR CONTROL OF WAN TRAFFIC AT
THE APPLICATION AND NETWORK LEVELS
FOR SUPERB PERFORMANCE, RELIABILITY,
AND STABILITY*



FAT Pipe
QoS

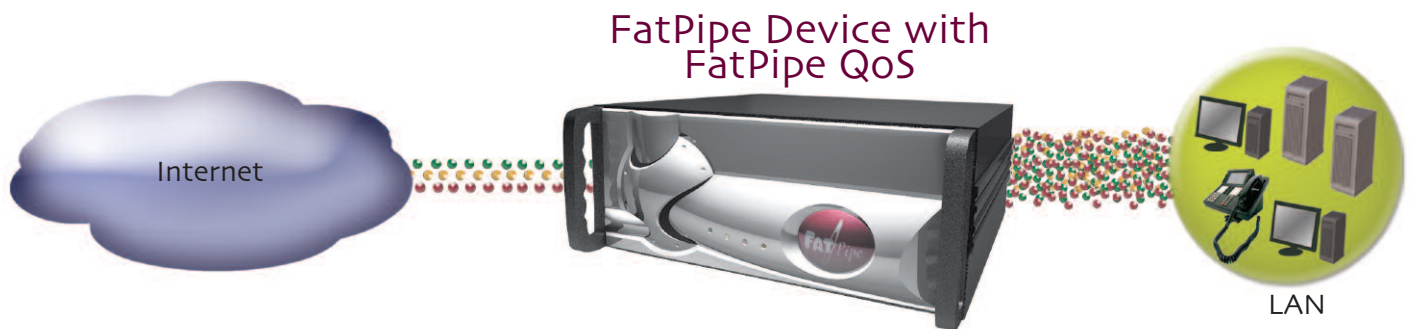
*Control, shape and
optimize WAN
traffic. New:
Application layer
QoS for greater
control of traffic*

Adding the FatPipe Quality of Service (QoS) feature to your FatPipe device can help you optimize the efficiency of your network by minimizing data line congestion and prioritizing data flow up to eight levels.

FatPipe's enhanced QoS gives you granular control over how IP traffic is transmitted across your network, and as a result, helps you control WAN costs. You can reduce bandwidth requirements and resolve bottlenecking issues when you allocate bandwidth to specific business applications. You can also control recreational traffic.

FatPipe's improved QoS technology now includes application layer QoS (layer 7) in addition to the networking layer where you can assign bandwidth by IP or port (layers 3 and 4). Application level QoS gives you the ability to create rules that guarantee bandwidth based on application, such as Citrix, over other applications. Application level QoS also allows you to restrict bandwidth to peer-to-peer traffic, such as BitTorrent, a peer-to-peer file sharing application, and Skype, a peer-to-peer VoIP application.

FatPipe QoS is combined with link load balancing, which ensures that rules are applied to additional or secondary lines when a failure occurs to your primary WAN line, providing redundancy for your WAN infrastructure data transmissions.



Important traffic passing through the box is categorized into its correct bandwidth and quality metric. Traffic going to the Internet is prioritized so that applications like VoIP, video, and other mission critical applications work properly without over-provisioning bandwidth.

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FatPipe QoS is simple and easy to configure using its GUI based interface. QoS guarantees quality and bandwidth for mission critical applications like email, Secure Shell (SSH), and Remote Desktop Protocol (RDP).

FatPipe QoS also gives you control at the networking level, allowing you to set rules based on IP or port. FatPipe QoS provides the protection and prioritization necessary to ensure that it will maintain bandwidth allocations at a minimal loss and delay as created and designated by your administrator.

Why you need FatPipe QoS

- Add stability, consistency, reliability, quality, and control to WAN links
- To control traffic based on your important, timely applications such as email, VoIP and Citrix
- Improve VPN utilization within VPN tunnel
- Provide complete and total control of bandwidth and quality parameters
- Maximize the utilization of all network links
- Stop packet flooding and Denial of Service (DoS) attacks

Benefits of FatPipe QoS

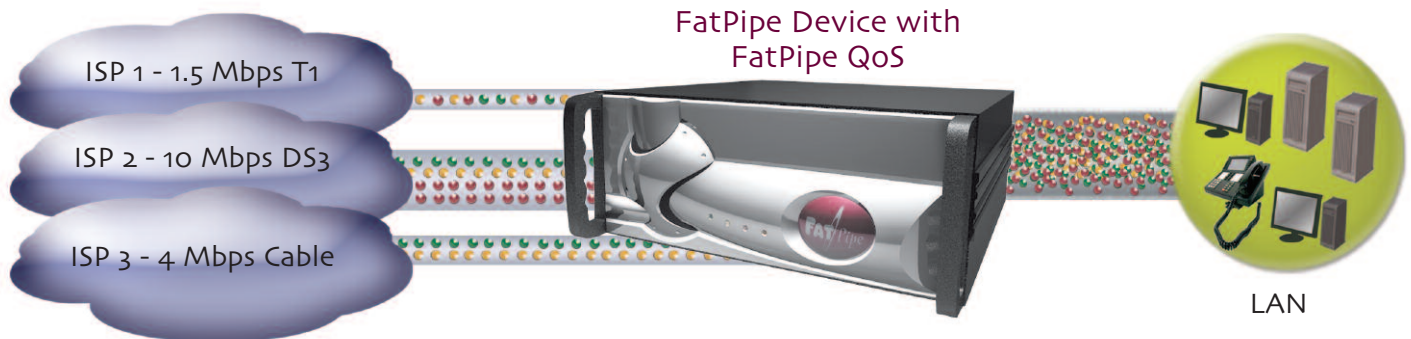
- **Easy Installation:** Up and running quickly with very little configuration required.
- **Throttles traffic to prevent congestion:** Improves bandwidth utilization by controlling recreational and malicious traffic.
- **Enhances quality of VPN traffic:** You can give higher priority to point-to-point traffic over Internet traffic to improve inter-office communication.
- **Traffic Shaping:** Allows the Network Administrator to regulate flow according to the company's needs.
- **Guarantees pre-allocated bandwidth for mission critical data:** Customers can allocate fixed amount of bandwidth for different types of traffic - 600 Kbps Video, 600 Kbps VoIP, 150 Kbps database, on a 1.5 Mbps connection
- **Prevents "over provisioning of network" by solving QoS problems on the customer side:** Bandwidth allocation adding to 90% allows for efficient utilization of WAN.
- **Maximize the utilization of your network link:** You can set policies for per application and per user. This sets a "fairness standard" among users and prevents one application or user from congesting a link.

Features of FatPipe QoS

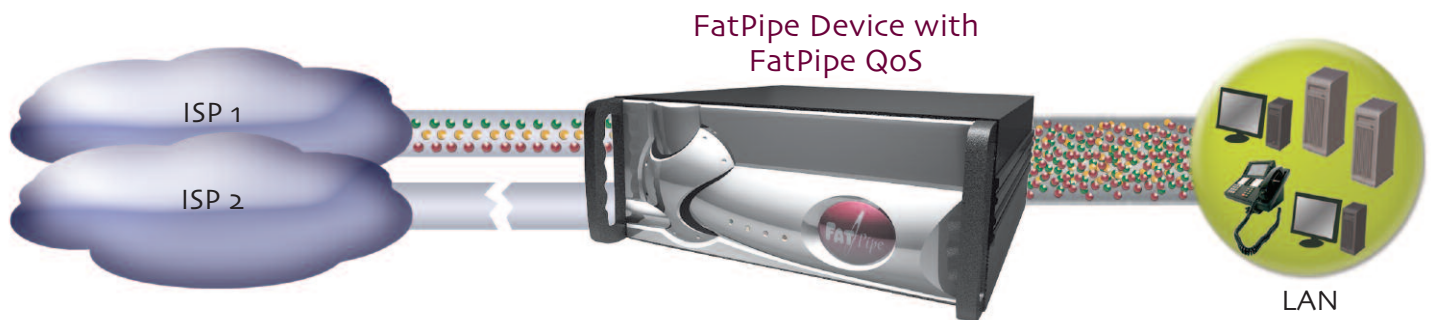
- Optimizes real-time and standard traffic controls, allowing you to assign bandwidth based on port or IP address, regardless of application.
- Always guarantees the minimum quality and bandwidth you require. Guarantees performance of applications like CRM and thin client by optimizing response times.
- FatPipe QoS gives you the ability to queue your less important traffic, allowing for the transmission of prioritized traffic.
- FatPipe's QoS is scalable and completely protocol independent
- Stops packet flooding and DoS floods

QoS

Examples of QoS Installation Environments



Integrated QoS on a FatPipe device allows for the assignment of QoS rules independently for each data line connection.



In the event that one line is no longer available, FatPipe QoS will dynamically reallocate QoS rules based on line availability. FatPipe's QoS scales the quality rules to available lines in case of a line failure, adding redundancy to the WAN infrastructure while maintaining performance for critical applications.



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