



A Simple Network Congestion Solution

More subscribers and higher connection rates

Increased number of subscribers and higher connection rates cause up/down-link congestion. Increasing bandwidth is only a partial solution due to aggressive P2P traffic capable of filling all the given bandwidth. Limiting P2P traffic is a poor solution, as is limiting any other traffic. Furthermore, encryption makes P2P identification and reduction impossible.

Staselog Network Equalizer™



Staselog Network Equalizer provides the simplest and most effective solution to the congestion problems.

Congestion elimination without limiting traffic

Staselog applies several (9) techniques in traffic optimization. Due to the unique dynamic processing approach, the full network capacity can be yielded at each time instance. Congestion elimination is based on priorities instead of limitations. This is why there is no need to set limits to any traffic or connection rates. By means of new technology, the network oversubscription ratio can be increased from 10 up to 1,000 without reducing network's Quality of Service.

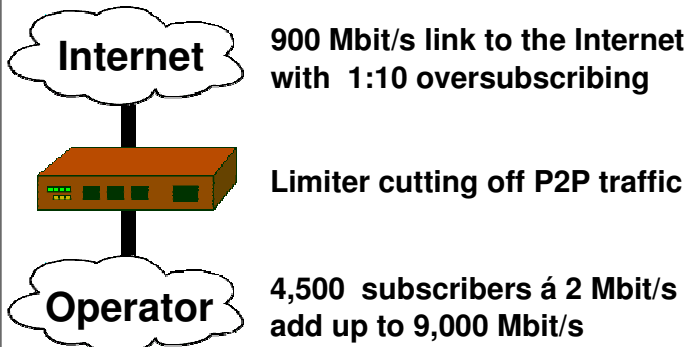


FIG. 1: TYPICAL CONSUMER BROADBAND NETWORK
In a typical consumer broadband network, connection rates are low, ranging from 0,25 Mbit/s up to 8 Mbit/s. Increasing the connection rates causes network congestion unless P2P traffic is limited. A P2P limiter must be upgraded and updated frequently. The traffic peak load set the bandwidth requirement. Now, the operator must buy more up/downlink bandwidth as the number of subscribers increases. Still, there is no guaranteed bandwidth.

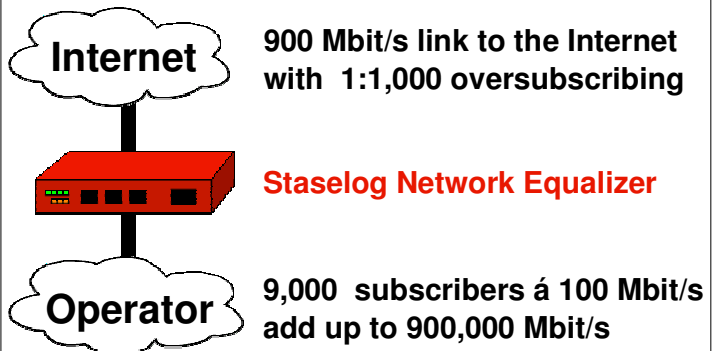


FIG. 2: UNLIMITED CONSUMER BROADBAND NETWORK
Using dynamical bandwidth management, the network can be fully utilized at all times. The main advantages are:

- No need for more bandwidth to the public Internet
- No need to identify and limit P2P traffic
- Larger amount of subscribers allowed per given bandwidth
- The existing subscribers' connection rate limits preserved
- Higher connection rates enabled up to the technical limits
- Guaranteed bandwidth for all subscribers
- Average delay reduction up to 60%
- Jitter is virtually eliminated
- Increased subscriber satisfaction due to improved connection
- Reduced need for network maintenance or updates
- No modifications to the network architecture required
- Custom settings for specific users or applications possible
- Enables adding on-line subscriber specific self-service

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