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Traffic shaping and policing are two techniques used in traffic engineering to control and manage network traffic. Traffic shaping aims to control the flow of traffic by queuing and delaying packets, while traffic policing immediately drops excess traffic(*Traffic Engineering: Shaping Vs. Policing | Baeldung on Computer Science*, n.d.) .

Both techniques have their pros and cons.

Traffic shaping can prevent network congestion and improve resource utilization by prioritizing important traffic(*Traffic Engineering: Shaping Vs. Policing | Baeldung on Computer Science*, n.d.). It also helps in improving the quality of service for network users by ensuring critical applications receive sufficient bandwidth. However, it can introduce additional delays and be challenging to configure.

On the other hand, traffic policing is effective in preventing network congestion by immediately dropping excess traffic(*Traffic Engineering: Shaping Vs. Policing | Baeldung on Computer Science*, n.d.). It is simpler to implement and can be effective in environments with highly variable traffic patterns. However, it can result in dropped packets and may not be suitable for real-time applications.

In conclusion, traffic engineering techniques such as traffic shaping and policing play a crucial role in managing network traffic and ensuring the quality of service for users. Both techniques have their advantages and limitations, and their effectiveness depends on the specific requirements and characteristics of the network environment.

Reference

*Traffic Engineering: Shaping Vs. Policing | Baeldung on Computer Science*. (n.d.). Retrieved December 3, 2023, from https://www.baeldung.com/cs/traffic-engineering-shaping-vs-policing