About WAN Optimization

WAN Optimization allows enterprises to make applications smaller and faster across Wide Area networks. This allows for improved employee productivity and more efficient use of expensive WAN infrastructure.

When selecting a WAN Optimization solution it is important to ensure you have adequate coverage for your enterprise architecture. This often includes physical and virtual remote devices, mobile users, load-balanced high-available data center options, trusted SaaS acceleration and consumption-based pricing models for your clouds.

More commonly today, WAN Optimization is also integrated with Software Defined WAN architectures (SD-WAN). It may be important to consider these options as well.

Key Optimization Techniques

TCP Streamlining	Tuning of TCP Slow Start, Congestion Avoidance and other algorithms to allow TCP to more effectively deal with latency and loss.
Application Streamline	Mechanisms to make applications faster, for example read aheads, write behinds, chattiness reduction, integrated authentication/encryption, etc.
Data Streamlining	Byte-level and object-level caching to reduce load on the network.
Quality of Service (QoS)	OSI Layer 3-7 traffic shaping to create predictable experiences for target traffic.

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