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What is

PMTA

& How is it a

Game-Changer in the
Network Security Space?

PMTA (Packet-wise Multisession Tunnel Aggregation) is a technique employed in our SD-WAN solution to establish SINGLE TUNNEL STATIC ROUTE between the Concentrator (hub) and CPE (spoke) by aggregating multiple sessions between multiple WAN links.

Unlike the traditional session-based IPSec Tunnels using load balancing between links PMTA slices each packet into multiple parts, encrypts each part with **128/256AES**, Compresses the packet & transmits packets through all healthy paths in the tunnel. This ensures TRUE TUNNEL aggregation for data movement.



Advantages of PMTA

Multiple Sessions, Single Tunnel

PMTA establishes multiple sessions within a single tunnel and utilizes aggregated hybrid WAN links for improved performance.

Secure by Design

PMTA packet slicing, 256AES encryption and Dynamic key rotation every 600 sec ensures complete safety against man-in-middle attacks or session hijacking.



Single IP Address

PMTA utilizes a single IP address for all sessions, simplifying network management and reducing configuration complexity.

Resilience against WAN Link Outages

PMTA provides redundant paths for traffic, ensuring uninterrupted connectivity even if one WAN link fails.



Jitter Reduction

PMTA mitigates jitter by distributing traffic across multiple sessions and enhancing voice and video quality.

Simplified Management

PMTA's single-path approach eliminates the complexity of dynamic routing algorithms, simplifying network management.



Predictable Performance

PMTA offers consistent performance due to its fixed single-path approach, making it suitable for applications requiring stability and consistent latency.



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