

SD-WAN Optimization

Distributed Network Application Performance and Security Control Validation

Keysight CyPerf pioneered the agent-based network application and security test solution category, meticulously recreating realistic workloads across diverse physical and cloud environments to deliver unparalleled insights into end user quality of experience (QoE), security posture, and performance bottlenecks of distributed networks. With CyPerf, organizations validate software-defined wide area network (SD-WAN) solutions and the bandwidth performance and QoE of various SD-WAN topologies, along with security efficacy of SD-WAN security offerings.

Challenges of creating resilient, high-performing, and secure SD-WANs

- Ensuring smooth deployment of SD-WAN infrastructure over complex topologies like physically distributed branches, clouds, and datacenters
- Validating SD-WAN performance in highly dynamic conditions that include cloud and hardware variables
- Changing traffic and security policies to stay ahead of user needs and rapidly changing threats
- Maintaining resiliency of SD-WAN tunnels to debug and remediate, performance issues, tunnel disappearance, flapping and other inconsistencies rampant in this environment

CyPerf — your solution to ensuring high-performing SD-WANs

- Optimize SD-WAN deployments using distributed CyPerf test agents deployed in physical and cloud environments generating realistic application traffic between them
- Evaluate key performance indicators of SD-WAN tunnels and understand maximum and average latencies, concurrency, and throughput
- Validate security features like application profiling and blocking, malware mitigation, exploit detection and block, URL filtering, file inspection
- Generate both legitimate applications and attack traffic to accurately evaluate the performance cost of security features and strike a right balance with QoE
- Minimize network downtime and user disruption with solid change management policies and proved due diligence by validating major network changes before pushing in production
- Conduct relevant demos and proof of concepts for SD-WAN customers/users to test differentiated offerings with realistic application and attack traffic generation



Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best product experiences. Start your innovation journey at www.keysight.com.

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