

SKYLIGHT™ PVX

Application QoE for NFVIS

vCPE and SD-WAN Use Cases

SD-WAN: Identifies applications and monitors how these applications perform over the WAN, which amounts to Application QoS

vCPE: A very dynamic environment - workloads are constantly moved from one VM or container to another with multi-vendor VNFs being added to, adjusted in, and swapped out of service chains

Consistent Application QoE scoring and visibility is critical for providing exceptional end user experience

Application performance over the WAN, QoS, is insufficient in itself to determine Application QoE.

Other performance measurements are required to determine true Application QoE:



Server Response Time



Network Round Trip Time



Front-end Web Server Delay



DNS transaction delay



Back-end Database Delay



Application Protocol Transaction Delay

SkyLIGHT PVX brings full stack Application QoE to SD-WAN and virtual services delivered over vCPE

Enterprise Service Automation (ESA)

3rd Party VNF's



Network Functions Virtualization Infrastructure Software (NFVIS)

ISR 4000+ / UCS E-Series

ENCS 5400

PVX



DATA STORE



L4-7 TRANSACTIONS

SQL, CITRIX, HTTP, ...
SSL, DHCP, DNS, SIP
SSH, PPTP, SMB
TCP / UDP

NETWORK PERFORMANCE

Ethernet / IP

Monitoring and tracking the entire end-to-end TCP delivery transaction chain is required to understand the actual end user experience of an application