

## A Plug-and-Play Solution for Your LiveNX Deployment

The LiveNX Server Appliance is a high-performance platform for next-generation network performance monitoring and diagnostics. It optimizes deployment of LiveNX for installations demanding consistent performance at the highest level or that require solutions independent of a virtual environment.

### Overview

#### Application Visibility and Troubleshooting

Gain a deep understanding of application traffic with full visibility of protocol and application type including video, voice, instant messaging, file transfer, etc. Troubleshoot applications deployed in the data center, or the cloud. Understand how your network is being used, how applications are performing, and which sanctioned or unsanctioned applications are being used.

#### Hardware Acceleration of Next-Generation Network

Performance Monitoring Functions Gain a deep understanding of application traffic with full visibility of protocol and application type including video, voice, instant messaging, file transfer, etc. Troubleshoot applications deployed in the data center, public cloud or SaaS. Understand how your network is being used, how applications are performing, and which applications are being used - at scale.

#### Complete Insight into Every Network Flow

With the LiveNX appliance, you can see the quality of every single conversation between users and resources, determine whether issues are with the network or application services, focus on any specific network node, look across the entire network and you always get full end-to-end visibility in real time.

#### Software-Defined WAN Management

Visualize the network and overlay paths from the branch-office, through the service provider(s) to the data center where the applications reside, for meaningful and actionable information. The LiveNX appliance accelerates the processing of multiple data sets from the network elements (such as vEdge or ENCS) directly with SNMP and Flow data, as well as from APIs from controllers (such as DNA Center or vManage). LiveNX correlates the near real-time data and the REST APIs to provide accurate visual analytics. the largest data centers to the smallest offices.

### Use Cases

**Netops:** With site to site visual analytics, policy verification at scale is simplified by the Plug-and-Play LiveNX Appliance. The performance of the service path between an application, SD-WAN tunnel and the service provider transport is analyzed and presented with overall service status to ensure policies are operating as expected.

**Dashboard, Alerts, Reports and Troubleshooting:** The visualization analytics offered by the LiveNX Appliance allow you to better understand network traffic in overlay-underlay architectures.

- Maps: Topology, Site to Site, SD-WAN Tunnels, VPNs, Application and flow path analysis
- Multi-vendor support
- Jitter, delay, packet loss metrics for voice and video
- Cloud-native application response times, round-trip time, server delay and client delay metrics

**Cisco SD-WAN Support (Viptela):** The LiveNX Appliance consolidates unified reporting, inventory, and alert notification for Cisco SD-WAN :

- Overlay visibility – VPN, tunnel
- Service Provider transport
- Performance Status
- Filtering by application, DSCP, VPN or Service Provider
- Cisco SD-WAN Site to Site Analysis: device inventory, including vEdge routers and management devices like vManage, vBond and vSmart

**Catalyst 9000 and SD-Access:** The LiveNX Appliance provides visual analytics for the service path in SD-Access. With Cisco DNA Center integration, Scalable Group Tags (SGT) and Virtual Network Identifiers (VNI) are resolved and with Cisco ISE (Identity Service Engine) integration, IP addresses are resolved to user names for a complete, concurrent view of both the virtual overlay and physical underlay fabrics.