

Description: Video performance SLAs are an integral part of online video service providers such as Netflix, HULU, and cable providers alike. Switch vendors (Arista in this sample) are also looking to provide performance monitoring and provide carriers with capability to proactively respond to network performance degradation by isolating potential SLA issues before they impact service. With Cloud-Edge's Network Intelligence Platform, switch vendors and carriers are able to become proactive versus reactive within their network ECO system.

Challenge:

Service providers are limited when it comes to consolidating switched environment data from all network assets in a near real-time state, due to varying data formats, locations and required storage for the volumes of data required to be captured. Also limiting are the advanced analytic capabilities that would need to be executed on the captured data. This both from a cost and flexibility perspective. Data would ultimately need to be streamed, captured, compressed, and have advanced analytic functions executed in a streaming manner to create such a proactive reporting mechanism. Without these capabilities, proactive report based monitoring of network traffic and conditions to support advanced SLAs, is impossible.

Action with Cloud-Edge:

With Cloud-Edge's Network Intelligence Platform (C-E-NIP) these challenges can be eliminated. The Cloud-Edge lightweight high-performance platform can provide the following key functionalities to establish a real-time network performance monitoring and event correlation solution.

- Data from the Arista switches is directly fed into data processing engine (DPE)(Eliminates Splunk licensing)
- Arista switches out-of-box are compatible with C-E-NIP.
- C-E-NIP provides a high performance data filter.
- Unfiltered data is archived and can be used to provide proof of SLA compliance in periodic reports.
- DPE can handle large data volumes in terms of ingesting and storing.
- C-E-NIP's extreme compression algorithms allow large volumes of network data to be efficiently compressed and stored up to 20:1
- Switch data export functionality via DPE to increase switch performance
- Service aware network performance monitoring as per service SLA confirmation

Cloud-Edge's Network Intelligence Platform (C-E-NIP) enables an environment for resiliency to service providers encompassing a solution to reduce unplanned events, improved network planning insight, and enhanced contingency planning. C-E-NIP provides unique and affordable network intelligence and accelerates the decision making process via our advanced analytics capabilities.

Cloud-Edge Network Performance Monitoring

Cloud-Edge Logical View, Reducing the Complexity

