



Telesystem SD-WAN Security Analytics

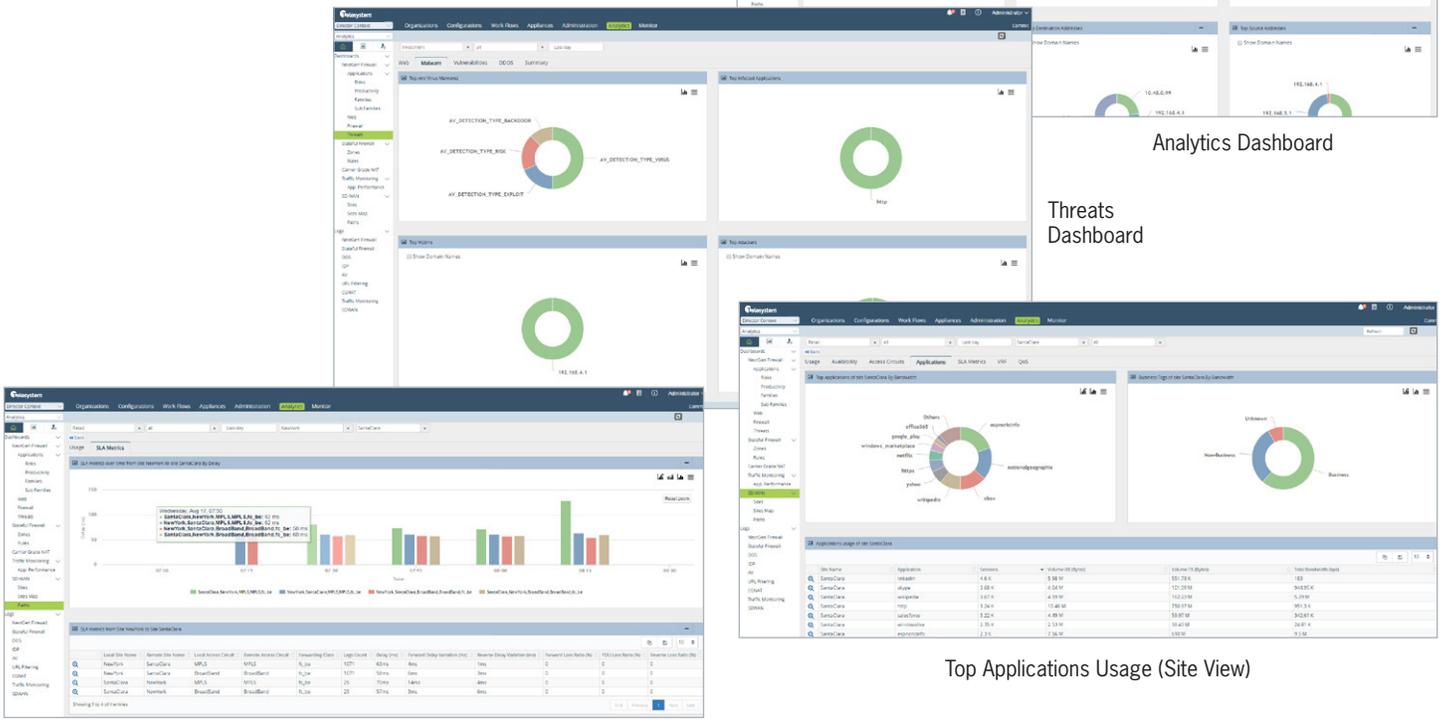
Networking is strategic to business. As per the latest industry data, through 2017 networks will see a 28% compound annual growth rate for bandwidth. While 50% of application deployments will suffer performance impact due to networking limitations. There will be a three-fold increase in security attacks year over year. Therefore, more important than ever, network visibility and control, predictability, adaptability and a feedback loop based on analytics data is a necessity for a trouble free and secure network. A strong analytics solution increases both the degree of seeing and the degree of timely action.

Telesystem Security Analytics is purpose-built for SD-WAN and managed services. It is a rich real-time big data solution that provides visibility and control, base-lining, correlation, prediction and feedback loop into VNFs. It provides real-time and historical search, reports on usage patterns, trends, security events, and alerts. SD-WAN Security Analytics analyzes huge amounts of data sent from VNFs to present critical data points as actionable analytics and reports. Tight native integration with Telesystem VNFs ensures optimized storage, search and performance.

SD-WAN Security Analytics has built-in multi-tenancy that enables a single cluster to provide service for hundreds of customers, enabling deployment flexibility and economy of scale. It tightly integrates with our Director for complete role-based access control. It is operations-ready and supports standard protocols and log formats, such as Syslog and IPFIX, making it compatible with existing SIEM, monitoring, and reporting systems. SD-WAN Security Analytics is extensible and flexible via REST APIs.

It is also drastically less expensive compared to other third party solutions.

The result is carrier-grade, multi-tenant big data analysis for realizing the full value proposition of Telesystem software-defined solutions.



SLA Metrics Dashboard

Analytics Dashboard

Threats Dashboard

Top Applications Usage (Site View)

Product Features

Data Logging Framework Highly scalable, reliable, optimized, policy-driven data logging framework Multiple transports Multiple log formats – IPFIX, syslog Streaming of logs to one or more 3rd party collectors	Security Reports Firewall reports per tenant: top rules, zones, source, destination by IP/domain name/geo location, ports, protocols, session duration, QoS, DDoS and Flood detection Application reports: top L7 applications by risk, productivity, family and sub-families based on sessions, volume and throughput Web traffic reports: top web traffic by URL categories and reputation Threat profile reports: URL filtering and captive portal actions, IDS/IPS, anti-virus, SSL certificate anomalies, etc. Forensics: packet capture for known/unknown applications and detected vulnerabilities
Reports & Analytics Real & historical time series log event reporting for various VNFs Traffic usage/protocol anomaly detection through trend lines and confidence band Prediction-based on extrapolation of trending data Ad-hoc and scheduled reports Predefined and custom report templates Report export formats: csv, pdf, xls, email notification	Anomalies Support of anomaly detection in traffic pattern/usage Support for custom applications to detect anomalies and take actions (send traps, program policies, etc.)
Search Multi-column search with drilldown Generic and custom queries Correlation searches	GUI Dashboard views for SD-WAN, security, vCPE functionality per tenant, per VNF Visualization using charts, real-time views, maps, grids Drilldown support to analyze data instantly for a given time range, detect trends and anomalies Automatic data enrichment Flexible reporting framework
Network Reports Traffic reports per site: availability, bandwidth usage per access circuit, bandwidth usage per application, latency/loss, QoS per access circuit Multi-site reports: connectivity, bandwidth usage and SLA metrics between sites CGNAT reports: NAT events, pool utilization etc.	Management Role-based access control REST APIs for Versa and 3rd party Apps Historical log archival and cleanup

System Requirements

In production networks, we recommend using bare metal for running Telesystem SD-WAN Security Analytics functionality to get optimal scaling and performance.

Storage 512GB or more. SSD, SATA/SAS drives. SSD is recommended	Operating System Ubuntu 14.04
Processor 2 socket server – 12 cores per socket, Intel Xeon 64bit processor	Web Browser Chrome, Firefox
RAM 64GB-128GB	

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