Versa Analytics

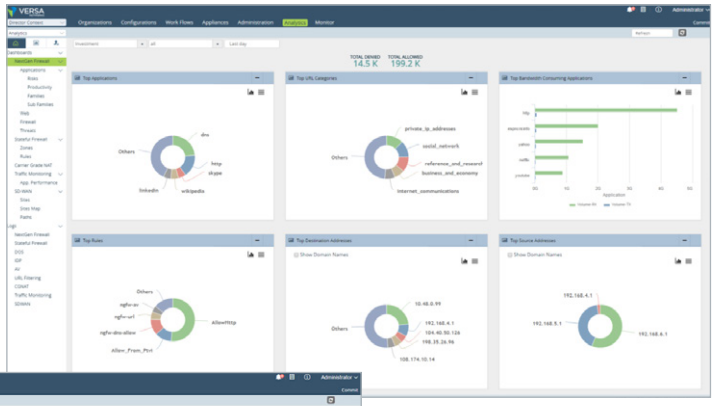
Product Description

Versa Analytics is purpose-built for Versa Secure Cloud IP Platform for use-case focused analytics covering SD-Routing, SD-WAN, SD-Security, and SD-Branch. It is a rich near real-time big data solution that provides visibility and control, base-lining, correlation, prediction and feedback loop into Versa software solutions. It provides near real-time and historical search, reports on usage patterns, trends, security events, and alerts. Versa Analytics analyzes large amounts of data sent from FlexVNFs to present critical data points as actionable analytics and reports. Tight native integration with Versa FlexVNF ensures optimized storage, search and performance.

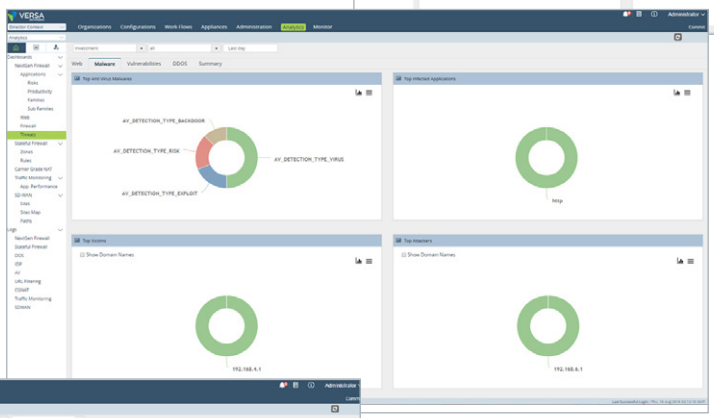
Versa Analytics has built-in multi-tenancy that enables a single cluster to provide service for hundreds of customers, enabling deployment flexibility and economy of scale. It tightly integrates with Versa Director for complete role-based access control. It is operations-ready and supports standard protocols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

The comprehensive and native capabilities reduces costs and simplifies deployments and data analysis by reducing the dependency on various 3rd party data analytics platforms. For multi-vendor environments, Versa Analytics interoperates with well-known performance management applications and 3rd party services.

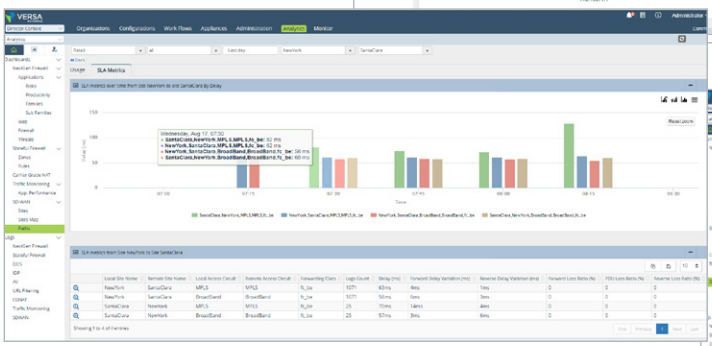
The result is carrier-grade, multi-tenant big data analysis and visibility for realizing the full value proposition of Versa software-defined solutions.



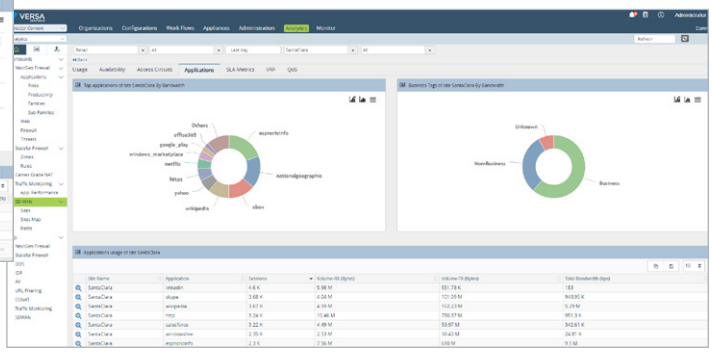
Versa Analytics Dashboard



Versa Analytics Threats Dashboard



Versa Analytics SLA Metrics Dashboard



Versa Analytics Top Applications Usage (Site View)

Product Features

Data Logging Framework
Highly scalable, reliable, optimized, policy-driven data logging framework for all Versa services
Multiple transports
Multiple log formats – Netflow, IPFIX, syslog, PCAP support
Streaming of logs to one or more 3rd party collectors
Reports & Analytics
Real & historical time series log event reporting for various Versa VNFs
Traffic usage/protocol anomaly detection through trend lines and confidence band
Dynamic WAN bandwidth measurements with historical analysis
Prediction-based on extrapolation of trending data
Application performance reports
Ad-hoc and scheduled reports
Predefined and custom report templates
Report export formats: csv, pdf, xls, email notification

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.
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

Search
Multi-column search with drilldown
Generic and custom queries
Correlation searches
Anomalies
Support of anomaly detection in traffic pattern/ usage
Support for custom applications to detect anomalies and take actions (send traps, program policies, etc.)
GUI
Dashboard views for SD-WAN, security, vCPE functionality per tenant, per FlexVNF
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
Google Maps support
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 Versa Analytics functionality to get optimal scaling and performance.

Recomended Sizing Requirements for Versa Director

Qty of Branches	Qty of Tenants	Deployment Option	OS	Processor	Servers	Cores	Storage Capacity	Storage (HDD) type	DRAM	Network ports per CPU
2500	500	Application on Ubuntu (Ubuntu Package) Virtual Machine	Ubuntu 14.04	Intel Xeon 64 bit	6 x 1 Socket server for Database nodes	16 cores	2 TB	SSD Preferred	128 GB per socket	2
					4x 1 Socket servers for Log Collectors	4 cores	128 GB		8 GB per socket	
1000	200				4 x 1 Socket server for Database nodes. Log Collectors integrated	16 cores	2 TB		128 GB per socket	
500	100						1 TB		64 GB per socket	

** Resource requirements are for 1 search and 1 Analytics node deployed in Non-HA. Versa recommends HA deployment for best performance and availability. Consult the latest Versa Analytics release notes for updated information related to resources, performance and configurations.

About Versa Networks

Versa Networks is a leading innovator in the SD-WAN and SD-Security market. Versa's solutions enable service providers and large enterprises to transform enterprise WAN's to achieve unprecedented business advantages. Versa's carrier-grade cloud-native software platform provides unmatched agility, cost savings and flexibility, transforming the business of networking. The company is backed by premier venture investors Sequoia, Mayfield, Artis Ventures and Verizon Ventures. For more information, visit https://www.versa-networks.com

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