PRODUCT BRIEF

AT A GLANCE

Security Analytics improves network visibility, inspection, and forensics to accelerate incident response and remediation.

KEY BENEFITS

- **Speed Threat Identification:** Deliver complete visibility into network traffic, with full network traffic analysis and packet capture, classification, deep packet inspection, threat data enrichment, and anomaly detection capabilities.
- **Reduce Incident Response Times and Streamline Forensics:** Provide context around what is happening in the network to support fast incident response and resolution and accelerated post-breach forensics.
- **Deliver Quick Threat Detection to Cyber Security Infrastructure:** Quickly deploy high-performance network traffic analysis and forensics that integrates with the environment to enhance and streamline threat investigation and remediation activities.

Security Analytics

Accelerating Incident Response and Improving Network Visibility and Forensics

Overview

Increasingly sophisticated threats against organizations require increasingly intelligent defenses to enable quick and effective responses. A successful defense requires full visibility into network traffic and insightful security intelligence capable of uncovering breaches, so that they can be quickly contained and remediated. Symantec™ Security Analytics delivers the complete network visibility and forensics required—to conduct comprehensive real-time and retrospective analysis and swiftly react to security issues to protect your workforce, fortify the network, and improve security processes.

A Comprehensive, High-Performance Solution

Symantec Security Analytics appliances are part of our Incident Response and Forensics solutions. These high-performance appliances harness the Symantec Security Analytics software to capture, inspect, index, classify, and enrich all network traffic (including full packets) in real time. This data is stored in an optimized file system for rapid analysis, instant retrieval, and complete reconstruction to support all incident response and remediation activities.

The appliances can be deployed anywhere in the network: at the perimeter, in the core, in a 10GbE backbone, or at a remote link to deliver clear, actionable intelligence for swift incident response and resolution and real-time network forensics. Security Analytics appliance components include:

- **Physical or virtual appliances:** Two server options, both in a 1U condensed form factor, complement available virtualized deployments with highly tuned platforms for network threat detection and forensic workloads of various capacities.
- **Storage modules:** Scale storage capacity as needed to retain days, weeks, or months of network traffic for in-depth investigations. Storage modules are available in a 144 TB (2-rack unit) or 840 TB (5-rack unit), high-density storage solution that supports up to 1.7 PB of raw storage per capture appliance.
- **Central manager:** Security Analytics Central Manager software, running either virtualized or on Security Analytics appliances, allows centrally administered configurations and orchestrated investigations across over 200 Security Analytics forensic appliances, physical, virtual, or in the cloud.

Next-Generation Capabilities for Advanced Protection

Security Analytics appliances are designed to deliver the network traffic analysis, security analytics, and advanced threat protection required to reduce the time it takes to resolve security incidents and conduct swift forensic investigations. Security Analytics enables the following capabilities:

Speed Threat Identification

Symantec Security Analytics enables total visibility into network traffic, from the data center to remote offices, through full network packet analysis, recording, and classification to accelerate the identification of attacks in your environment and shorten your exposure window. The Security Analytics appliances deliver the following:

- **Application classification:** Through powerful deep packet inspection (DPI), more than 3,300 applications and protocols are identified with thousands of descriptive metadata attributes generated, including content types and file names. This detailed metadata accelerates investigation by identifying what traffic is really hiding inside of well-known network channels.
- **Real-time threat intelligence:** Direct access to the latest threat intelligence, via tight integration with Symantec Intelligence Services and the Symantec Global Intelligence Network, delivers a network of thousands of customers and millions of users worldwide, as well as numerous third-party threat and reputation services. Symantec provides real-time, actionable threat intelligence, and URL and file reputation data directly to Security Analytics, enabling confidence in the most up-to-the-minute information on attacks targeting the organization.
- **Anomaly detection:** Performs advanced statistical analysis on captured data to create a baseline of the organization's network traffic and user activity, then detects outliers based on numerical, linguistic, and information density analysis. Security Analytics alerts on anomalous behavior with a pivot to the Anomaly Investigation view to see when the anomaly occurred, how often, and which parts of the network were involved.
- **Emerging, zero-day threat detection:** Automatic brokering of unknown files to Symantec Content Analysis or other 3rd-party sandboxes for detonation and threat scoring helps you incriminate or exonerate suspicious activity in your environment.

Reduce Incident Response Times and Streamline Forensics

Security Analytics enables the insights required to understand the context of security events in the environment, to quickly contain and remediate the full extent of a security incident, and support post-breach forensics activities. The appliances enable full retrospective analysis and real-time situational awareness, with clear, concise actionable intelligence about the threats to applications, files, and web content through the following:

- **Layer 2 through 7 analytics:** A variety of analytics tools, such as complete session reconstruction, data visualization, Root Cause Explorer, timeline analysis, file and object reconstruction, IP geolocation, trend analysis, and anomaly detection ensure everything is included to fully understand environment threats. For example, the Root Cause Explorer uses extracted network objects to reconstruct a timeline of suspect web sessions, emails, and chat conversations, so that evidence can be collected on the full source and scope of a security event.
- **Tight integration with security infrastructure:** Security Analytics integrates with best-of-breed security technologies, including security information and event management (SIEM) systems, next-generation firewalls (NGFW), intrusion prevention system (IPS), malware sandboxing, and endpoint forensics—to help leverage existing security investments and improve the effectiveness of established processes and workflows.
- **Context-aware security:** Security Analytics offers context for all security alerts to better understand what happened before, during, and after an attack. Pivot directly from any alert or log and obtain the full-payload details to support quick incident resolution and ongoing forensics activities.

Quickly Achieve Results

The enterprise-ready network threat detection and forensics solution quickly adds value to security operations. Easily deployed as a high-performance physical appliance, in a virtual environment, or next to cloud workloads, Security Analytics offers the following:

- **Enterprise-class performance:** Security Analytics delivers packet capture, indexing, and classification that meet the performance needs of the most demanding SOC environments. The hardware appliances are based on certified, industry-standard hardware platforms that provide the high availability and serviceability required to maximize uptime and performance.
- **Scalability:** Massive storage capacity can accommodate extended capture windows for retrospective analysis. Optimized high-density storage with petabytes of capacity enables the ability to meet fast-changing requirements and growing network traffic demands.
- **Flexible deployment:** Security Analytics enterprise licensing enables the option to deploy a high-powered forensics solution when and where it is needed. Deploy unlimited virtual appliances to handle branch or remote locations, add an appliance or additional storage to the data center, or deploy Security Analytics to add complete forensics to cloud workloads. Security Analytics Central Manager enables the ability to centrally monitor and manage distributed Security Analytics appliances from a single pane of glass.

The Intuitive UI makes it easy to get the information required to accelerate incident response and forensics activities.

Figure 1: Customized Dashboard View for Quick Analysis

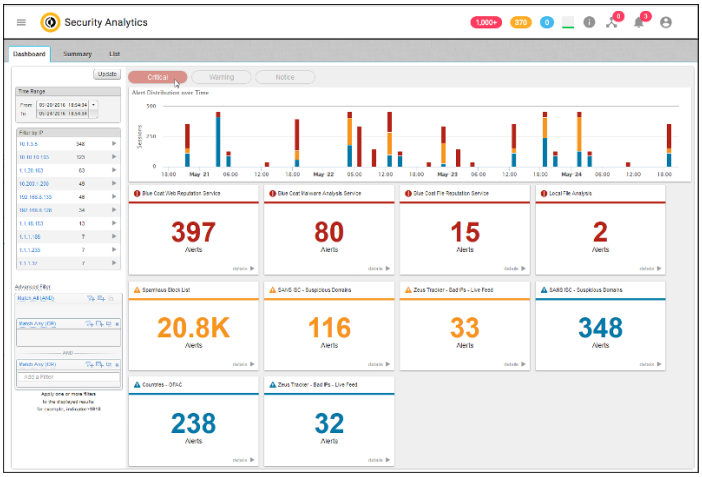


Figure 2: See the Source of Traffic and Threats

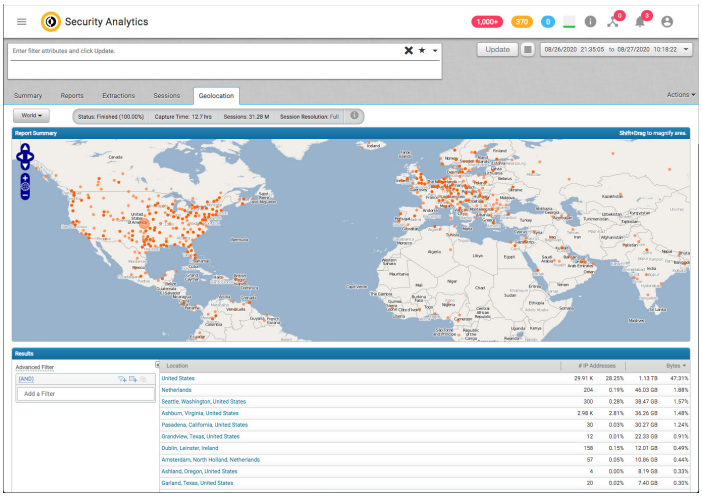
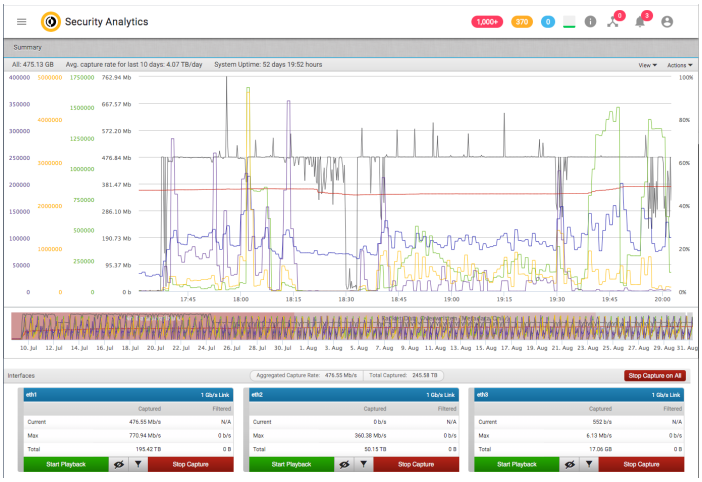


Figure 3. Full Packet Capture and Metadata Enrichment



Security Analytics Capture Appliances

Feature	Capture Appliance SA-SRVG8-20	Capture Appliance SA-SRVG8-40
Interfaces	*4x 1GbE/10GbE Copper 2x SFF-8644 HD Mini-SAS Connectors (8x 12 Gb/s SAS lanes)*	*2x 10GbE/25GbE SR Fiber SFP28 4x 1GbE/10GbE Copper 4x SFF-8644 HD Mini-SAS Connectors (16x 12 Gb/s SAS lanes)*
On-Board Storage	*5x 2.4 TB 10K RPM Self-Encrypting SAS 12 Gb/s 512e 2.5-in. Hot-Plug Hard Drives*	*5x 2.4 TB 10K RPM Self-Encrypting SAS 12 Gb/s 512e 2.5-in. Hot-Plug Hard Drives*
Max Usable Attached Storage	*700 TB (840 TB if one SA-STAG8-5U840 array is attached)*	*1,400 TB (1680 TB if two SA-STAG8-5U840 arrays are attached)*
CPU	*2x Intel 4210 2.2G, 10C/20T, 9.6 GT/s, 13.75M Cache, Turbo, HT (85W) DDR4-2400*	*2x Intel Xeon Gold 6230R 2.1G, 26C/52T, 10.4 GT/s, 35.75M Cache, Turbo, HT (150W) DDR4-2933*
Memory Capacity	*192 GB (16 GB x12) RDIMM, 2933 MT/s, Dual Rank DDR4*	*384 GB (16 GB x24) RDIMM, 2933 MT/s, Dual Rank DDR4*
Rack Height	*1 RU (42.8 mm/1.69 in.)*	*1 RU (42.8 mm/1.69in.)*
Rack Width	*482.0 mm/18.98 in.*	*482.0 mm/18.98 in.*
Rack Depth	*808.5 mm/31.8 in.*	*808.5 mm/31.8 in.*
Chassis Configuration	*Up to five 2.5-in. SAS Hard Drives*	*Up to five 2.5-in. SAS Hard Drives*
Power Supplies	Dual, Hot-plug, Redundant Power Supply (1+1), 750W	*Dual, Hot-plug, Redundant Power Supply (1+1), 750W*
Power Cords	*2x C13 to C14, PDU Style, 12 AMP, 6.5-foot (2m) Power Cord, North America*	*2 x C13 to C14, PDU Style, 12 AMP, 6.5-foot (2m) Power Cord, North America*
Rails	*Slide Rail Kit*	*Slide Rail Kit*
Internal Raid Controller	*1x PERC H730P RAID Controller, 2GB NV Cache, Mini card*	*1x PERC H730P RAID Controller, 2GB NV Cache, Mini card*
External SAS Controller	*1x SAS 12 Gb/s HBA External Controller, LP Adapter*	*2x SAS 12 Gb/s HBA External Controller, LP Adapter*
Embedded Management	*iDRAC9 Enterprise*	*iDRAC9 Enterprise*
Input Power	*Typical 1218.1 BTU/hr (357 W), Max: 1926.8 BTU/hr (564.7W)*	*Typical 1264.9.1 BTU/hr (371 W), Max: 1896.8 BTU/hr (555.9W)*
Air Flow	*42.4 CFM (20 l/s)*	*43.5 CFM (20.5 l/s)*
Total Weight	*Approx. 21.9 kg (48.3 lbs.) ±5%*	*Approx. 21.9 kg (48.3 lbs.) ±5%*

Security Analytics Storage Appliances

Feature	Storage Module SA-STAG9-2U192	Storage Expansion Module SA-STXG9-2X192	Storage Module SA-STAG8-5U840
Interfaces	*8x SFF-8644 HD Mini-SAS Connectors (32x 12 Gb/s SAS lanes)*	*8x SFF-8644 HD Mini-SAS Connectors (32x 12 Gb/s SAS lanes)*	*8x SFF-8644 HD Mini-SAS Connectors (32x 12 Gb/s SAS lanes)*
Onboard Storage	*12x 16 TB 7.2K RPM Self-Encrypting NLSAS 12 Gb/s 512e 3.5-in. Hotplug*	*12x 16 TB 7.2K RPM Self-Encrypting NLSAS 12 Gb/s 512e 3.5-in. Hotplug*	*70x 12 TB 7.2K RPM Self-Encrypting NLSAS 12 Gb/s 512e 3.5-in. Hotplug*
Max Raw Storage	*192 TB raw storage per module*	*192 TB raw storage per module*	*840 TB raw storage per module*
Rack Height	*2 RU (87.9 mm/3.46 in.)*	*2 RU (87.9 mm/3.46 in.)*	*5 RU (222.3 mm/8.75 in.)*
Rack Width	*483.0 mm/19.01 in.*	*483.0 mm/19.01 in.*	*483.0 mm/19.01 in.*
Rack Depth	*602.9 mm/23.74 in.*	*602.9 mm/23.74 in.*	*974.7 mm/38.31 in.*
Chassis Configuration	*12 Drive Storage Array Enclosure (RBOD)*	*12 Drive Expansion Enclosure (EBOD)*	*70 Drive Storage Array Enclosure (RBOD)*
Power Supplies	Dual, Hot-plug, Redundant, 580W	*Dual, Hot-plug, Redundant, 580W*	*Dual, Hot-plug, Redundant, 2200W*
Power Cords	*2x C13 to C14, PDU Style, 12 AMP, 6.5-foot (2m) Power Cord*	*2 x C13 to C14, PDU Style, 12 AMP, 6.5-foot (2m) Power Cord*	*2x C19 to C20, PDU Style, 8.2-foot (2.5m) Power Cord*
Rails	*Rack Rail, 2U, Static*	*Rack Rail, 2U, Static*	*Rack Rail, 5U, Static*
Internal Raid Controller	*Built-in RAID Support*	—	*Built-in RAID Support*
Embedded Management	*ME Storage Manager (MESM) HTML5 GUI, CLI*	*N/A – Expansion modules are managed through the storage module they are attached to.*	*ME Storage Manager (MESM) HTML5 GUI, CLI*
Input Power	*Typical 1204.5 BTU/hr (353W), Max: 1620.8 BTU/hr (475W)*	*Typical 1057.8 BTU/hr (310W), Max: 1446.7 BTU/hr (424W)*	*Typical 3818.2 BTU/hr (1119W), Max: 5534.5 BTU/hr (1622W)*
Air Flow	*6.5 CFM (3.1 l/s)*	*6.5 CFM (3.1 l/s)*	*231 CFM (109 l/s)*
Total Weight	*Approx. 32 kg (70.5 lbs.) ±5%*	*Approx. 32 kg (70.5 lbs.) ±5%*	*Approx. 120 kg (264.6 lbs.) ±5%*

For more information, please visit: www.broadcom.com/symantec-sa

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