Synoptek {

SIEM as a Service

Service Definition

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1 INTRODUCTION

This Service Definition is subject to all terms and conditions of the Service Order to which it was attached. This Service Definition describes and contains additional terms that apply to Synoptek's Security Information and Event Management, or SIEM-as-a-Service (the "Service").

The service definitions found herein reflect Synoptek's standards at the time the Service Order(s) was issued. Synoptek reserves the right to change any particular standard herein to reflect the current Synoptek best practices or industry standards at its sole discretion with or without notice.

2 SERVICE OFFERING

Synoptek's Security Services are designed to defend and minimize your attack surface. Our Security Services include threat detection, investigation, and reporting. Our Security personnel will continue to advise on ever changing threats and recommended actions.

Synoptek's Security Information and Event Management services, or SIEM-as-a-Service, is designed to provide organizations all the benefits needed from a security information and event management system without any of the headache or capital investment. The offering is a comprehensive SIEM-as-a-Service solution, fully hosted in a secure and compliant cloud to manage and monitor your critical systems regardless of where they may be.

Key Features:

- Fully hosted & managed SIEM
- Comprehensive device support
- Event log consolidation
- In-depth security and anomalous activity monitoring
- Pre-tuned rules
- Ongoing rule enrichment
- Ongoing rule tuning and false-positive reduction
- Managed upgrades to SIEM
- No capital expenditures
- Device onboarding
- Virtual CISO service

2.1 SOLUTION PURPOSE

Most organizations don't have the technology or personnel to detect these cybersecurity threats, let alone investigate or remediate them. The average time between a data breach and discovery is 205 days. Simply implementing security tools such as firewalls or anti-virus isn't enough. This is even more true for organizations that fall under PCI, HIPAA, SOX, or FFIEC regulations. For those companies, compliance with various guidelines and mandates is absolutely critical to avoid fines or worse.

Today's threats and compliance guidelines require organizations of all sizes to collect, correlate, and analyze security information from all IT systems to enable rapid detection and remediation. That technology is known as security

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information and event management (SIEM), and it provides deep security intelligence for your IT environment. A proper SIEM solution can help answer critical questions that are vital to your cybersecurity protection – questions such as:

- A user login has failed multiple times; did the employee forget their password or is this a brute force attack?
- Sensitive files on a server were accessed last night; is this normal business use or did we just get breached?
- A typical firewall can send out 864,000 events per day; how do I know which of these (if any) are important?
- New wireless access points have been added to the network; where are they and was this intentional?
- Are our employees going to sites intentionally or not that put us at risk for malware infection?
- Regulatory compliance requirements are changing constantly; do we have the data needed to properly comply?

3 HOW IT WORKS

Synoptek provides automated alert handling and notifications with human oversight for on-premise devices including firewalls, routers, unified threat management devices, switches, servers and all other devices for which there is a preconfigured SIEM parser. Security alerts generated by Client's device(s) will be sent directly to the SIEM for collection and correlation via an on-premise Collector (minimum of one required per end customer organization; requires virtualization). Notifications will then be automatically sent to configured contacts via email, based on Client's Incident Notification Policy.

With an integrated and cross-correlated view into your network, devices, apps and user logs, Synoptek simplifies the collection of information that impacts your business. With a powerful analytics engine, automated CMDB and event consolidation, smart anomaly detection, identity and location binding, and flexible data management, we redefine the next generation of SIEM.

Synoptek delivers a robust, scalable SIEM-as-a-Service solution:

- Mainstream device support
- Event source monitoring
- Event log and network flow data consolidation
- Comprehensive, extensible analytics
- Network, virtualization, and application intelligence
- Identity and location intelligence
- Configuration and configuration change monitoring
- In-depth database security, availability and anomalous activity monitoring
- Powerful, layer 7 rules engine
- Real-time and historical cross-correlation
- Prioritized, valid security incidents with correlated and raw details
- Dynamic dashboards, topology maps and notification
- Real-time and long-term search with web-like guery and iterative filtering
- Directory service integrated and custom asset and user grouping
- Compliance and standards-based reports
- Optimized event repository
- Event log data integrity secured by HMAC

The Security Information and Event Management (SIEM) platform is hosted by Synoptek and offers:

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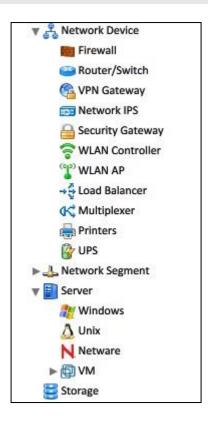
- Redundant, geographically disperse datacenters
- Nightly data replication between datacenters
- Three (3) month data retention within the portal; additional storage length is available for an additional fee

3.1 LOGGING

Event log management / security information event management (SIEM) is considered an IT best practice, and for regulated industries, an audit compliance requisite.

The challenge is how to consistently aggregate, decipher and normalize non-standard log formats; manage massive volumes of event log data for real-time and historic analysis; correlate and consolidate complex event log data to yield actionable intelligence; and maximize event log value to support IT service reliability.

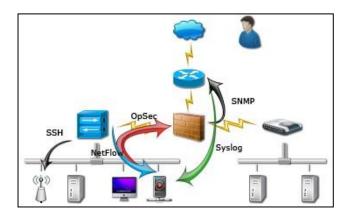
Some equate log management to log aggregation, display, and storage – a simple approach that fails to address these complex challenges. Most SIEM products offer basic event consolidation, simple correlation rules, limited real-time analysis, poor reporting and investigation flexibility, and no identity or infrastructure context. Many still require special collectors, add-on modules, additional systems and significant expertise. None of this is required for Synoptek's SIEM-as-a-Service.



3.2 COLLECT PARSE AND CORRELATE

Supporting multi-vendor device sources and advanced parsing technology, Synoptek can collect, parse, correlate and store logs from virtually all your IT infrastructure sources. Our solution automatically interprets the device type and how to process the event logs as they are received.

- Network activity logs from Firewalls, Routers, Switches, VPN Gateways, Wireless LAN, Web/Mail Security Gateways, and Network IPS
- Network resource utilization and anomaly detection from network flow data
- Server operating system security logs from Windows, Unix, Linux and virtual machines



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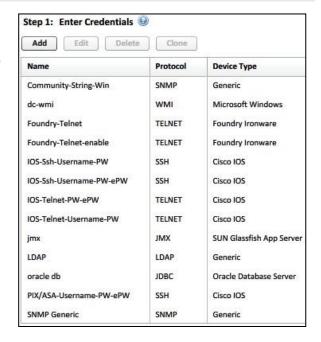
- Network infrastructure application logs from domain controllers, authentication servers, DNS and DHCP servers, and vulnerability management servers
- User application logs from web, application, and database servers

Synoptek's parsers intelligently categorizes the source of the log into different device groups such as Firewalls, Routers / Switchers, Wireless LAN Controllers, Printers, etc. It also groups into various server categories such as Windows, Unix, VMWare, and storage devices.

A list of covered sources will be included in your Synoptek Service Order.

3.3 AUTOMATIC DISCOVERY

With our solution, Synoptek automatically discovers your network infrastructure and its resources using intelligent scanning methods. It supports a smart scan method, which iteratively learns only about the live devices in your network. Since only live devices are traversed, it is much faster than other traditional methods of network security and device discovery. It also supports a range scan method where each machine in the range is first pinged and then an attempt is made to do full discovery using the given credentials. Once the capabilities of the devices are known, the security information which can be fetched from those devices are automatically determined.



3.4 MULTI-FACETED DATA COLLECTION

Synoptek supports virtually all agent-less and agent-based data collection methods to collect logs from a variety of devices and applications including:

- SNMP
- Syslog
- Windows Management Instrumentation (WMI)
- Microsoft RPC
- Cisco SDEE
- Checkpoint LEA
- JDBC
- VMWare VI-SDK
- JMX
- Telnet
- SSH
- HTTPS
- IMAP / IMAP over SSL

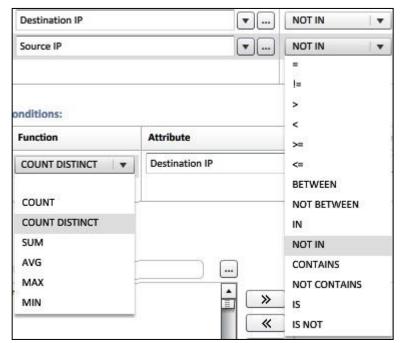
3.5 POWERFUL ANALYTICS FOR REAL-TIME CORRELATION AND ALERTING

Synoptek can detect your network services and profile network traffic from network flows and firewall logs. An advanced analytics engine detects patterns in data over a rolling time window taking into account very complex patterns. This

includes combined patterns of network, system, application and user activity. The built-in analytics engine can be easily extended using XML-based definitions.

Synoptek's solution contains more than 500 built-in rule classes which cover scenarios such as:

- Host scans, port scans, fixed-port host scans, denied scans, and other traffic anomalies
- Network device and server logon anomalies
- Network access anomalies from VPN, domain controller and wireless logons
- Web server and database access anomalies
- Rogue workstations, mobile devices, and WLAN APs etc. from DHCP logs
- Account lockouts, password scans, and unusual failed logon patterns
- Botnets, mail viruses, worms, DDOS, and other day zero malware from DNS, DHCP, web proxy logs, and flow traffic



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The analytics engine patterns are comprehensive and allow us to build complete Boolean operators and nested subpattern rules:

- Sub-patterns connected in the time dimension by operators such as AND, OR, FOLLOWED_BY, AND_NOT, NOT_FOLLOWED_BY
- Each sub-pattern can apply condition operators such as =, !=, BETWEEN, IN, NOT IN, IS, IS NOT, etc
- Each sub-pattern can filter and apply aggregation operators such as AVG, MAX, MIN, COUNT, and COUNT DISTINCT
- The thresholds can be static or statistically derived from automatically profiled data

3.6 COMPLIANCE AUTOMATION

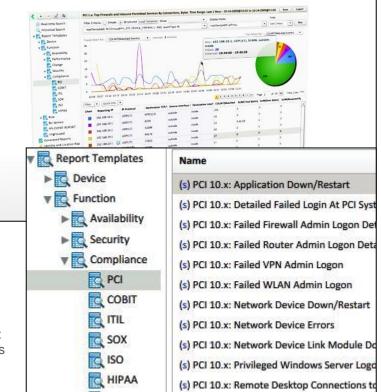
Synoptek offers full log aggregation, real-time event correlation, and online data retention with rules and reports mapped to compliance standards such as PCI, FFIEC, SOX, and HIPAA.

By incorporating an automated CMDB, statistical profiling, and true identity binding for complete access records, Synoptek automates your audit and control processes.

Standards and compliance are all about implementing policies, procedures, and technologies that reduce business risk, as well as being able to efficiently validate that controls are working according to stated policy expectations and mandated requisites. Beyond setting policy and procedures, many tools in an IT's management portfolio must support compliance efforts.

The question then becomes finding the right technologies that best automate control verification and documentation, as well as those that streamline internal and external audit challenge/response processes. Compliance considerations for IT management tools should include the means to:

- Validate a broad set of policies across technologies
- Deliver on-demand results to auditor inquiries
- Readily obtain applicable data and documentation
- Normalize compliance-relevant data across disparate systems
- Diminish compliance liabilities and audit duration
- Meet auditing and data management standards
- Identify control gaps and prioritize incident response
- Adapt to existing security, governance and auditing processes
- Respond to complex and rapidly changing environments



Synoptek satisfies all the above compliance considerations with built-in dashboards, analytics, and reports mapped to leading standards and compliance best practices.

3.7 CMDB AND CHANGE MANAGEMENT

Synoptek's solution delivers a fully automated and comprehensive CMDB – discovering, intelligently grouping and maintaining a smart inventory of network assets, software, patches, users and directory objects. And we build all this directly from your infrastructure and trusted sources without requiring agents.

3.8 CMDB FEATURES

Synoptek's solution discovers, records, monitors, and reports on all your network assets, both physical and virtual. Our solution allows organizations to quickly and easily:

- Track hardware and software assets
- Understand what software is installed and what is running
- Analyze system utilization by application and respective processes
- Associate asset allocation with users, groups and services
- Monitor network application use and resource consumption by user or group
- Track blacklist or whitelist applications
- Assess and integrate patch deployment and vulnerability issues
- Identify shelfware and license reduction opportunities
- Plan capacity and migration options for consolidation projects
- Prepare for audits

Statistics					
Creat	ted at	Tue Sep 2	2 2009 5:57:34 F	M via L	OG.
Last Updat	ed at	Fri Oct 9 2	.009 6:31:39 PM	via MA	NUAL
# Inter	faces	2	# Componen	its	0
# Installed	S/Ws	20	# Running A	pps	113
# System Ser	rvices	114	# Patches	104	
# Proce	ssors	2	# Storage	4	
General					
Name	Ads-I	Pri-Win-Serv	ver		
Access IP	192.1	168.0.10			
Type	Micro	osoft Windo	ws Server 2003		
Version	Servi	ce Pack 2			
OS Serial#	6971	2-347-7780	742-42014		
Build#	5.2.3	790			
Importance	Critic	al			
Owner/Org	IT De	pt			
	F16/5		loor#1, Lab#5, I	01-444	

3.9 CHANGE MANGEMENT FEATURES

As a part of Change Management, Synoptek detects the following scenarios:

- Monitors network device configurations for startup configuration change and difference between startup and running configuration
- Monitors installed software differences for new software installations and existing software uninstalls
- Monitors active directory user/group membership changes
- Stores versioned configuration in database
- Alerts on configuration changes, tied together with admin IP and workstation
- Alerts on unauthorized changes
- Reports on configuration change history, optionally by business service

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3.10 RUNNING AND STARTUP CONFIGURATION

As a part of change management, Synoptek discovery module discovers the "start-up" and "running configuration" from the network devices such as routers, firewalls and switches over a historical period. It intelligently detects the difference between the startup configuration and running configuration and differences between various startup configurations over a long period of time.

Whenever a change is detected, it creates a incident and notifies the administrator about the change. With this intelligence, the administrator can keep track of the changes

interface VI AN1 Interface VLAN1 ip address 172.16.10.254 25 ip address 172.16.10.254 25 no ip directed-broadcast no ip directed-broadcast no ip route-cache no ip route-cache ip default-gateway 172.16.1 ip default-gateway 172.16.1 logging 172.16.21.75 logging 172.16.21.75 snmp-server engineID local logging 100.1.1.1 snmp-server engineID local snmp-server community pu snmp-server location PH-Q/ snmp-server community pu snmp-server contact WenYo snmp-server location PH-Q/

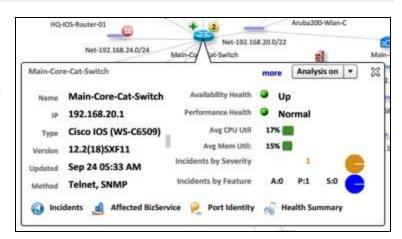
done which are unauthorized configuration changes to their core network devices. The administrator can look at the configuration of any historical time interval, by selecting the revision of that configuration.

3.11 CONFIGURATION DFF

It is also possible to view the versioned configuration at any time, and is possible to search for specific keywords in the configuration. Using an intuitive UI, the administrator can also **diff** between any version of the running configuration. With this feature, it's very easy to detect changes and to pinpoint each specific change in the configuration.

3.12 INCIDENT NOTIFICATION OVERLAY

The Synoptek system keeps track of the incidents occurring on your network using an advanced analytics engine in real-time. Synoptek can write a rule to detect any simple or complex scenario and the system will create the correct alerts applicable to that scenario. The visualization engine automatically keeps track of these incidents and overlays them on the main graph nodes so that the user can get a rapid visual cue of network issues at any time. The tool has the option of showing all incidents – critical (red) incidents, warning (yellow), or informational (green) incidents. These topology incident overlays are automatically updated by the user interface. It's also possible to obtain full details on each incident, by just clicking on the *incident count indicator button*.



3.13 IDENTITY LOCATION MANAGEMENT

Using an innovative identity and location-to-event binding technology, Synoptek automatically associates IP addresses to machine names, MAC addresses, switch VLAN IDs, logged-on users and directory objects. Now complete who and where details are maintained as action records, irrespective of the use of shared credentials, including the network the user has connected to and by what method.

3.14 KNOW THE USER AND LOCATION – NOT JUST THEIR IP ADDRESS

Using identity and location-to-event binding technology, Synoptek intelligently associates IP addresses to machine names, MAC addresses, switch VLAN IDs, logged on user name, and directory identity. It automatically identifies a user's location in terms of nearest WLAN AP, controller, VPN gateway, Layer 2 switch port, and associates primary logins to secondary logins in order to identify the real user behind administrative accounts. With this information, any IP address can be automatically associated to a specific user, on a specific server/laptop, and connected to the network via a specific access method: AAA, VPN or switch.

Analytics > Identity and Location Report			
(636 of 636			
IP address	User	Location	
192.168.0.26	sdickinson (Domain)	Main-Core-Cat- Switch 192.168.20.1 (GigabitEthernet6 /12)	
192.168.20.52	elee (Domain)		
192.168.20.39	ayong (Domain)		
192.168.0.26	apacheSVN (Domair	Main-Core-Cat- Switch 192.168.20.1 (GigabitEthernet6 /12)	
192.168.0.26	phoenix_dev (Doma		
192.168.0.10	Administrator (Dom	Main-Core-Cat- Switch 192.168.20.1	

By binding user identity and location to events, full who and where details are maintained as an action record irrespective of the use of shared credentials. Now investigating operational issues, change anomalies, security breaches and violations, and reporting on internal user actions are no longer obstacles.

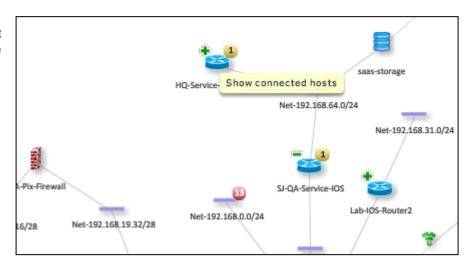
These actionable identity and location details are presented, used and always available in dashboards, topology maps, incidents, enterprise search, rules and reports. As changes in directory objects, new network devices and systems, or known or unknown users access your infrastructure, all the pertinent location and identity information is current and maintained for real-time and historic analysis.



3.15 PORT IDENTITY

Synoptek keeps track of the MAC to VLAN ID mapping in switches and routers, so that it can map an IP address to a specific machine name, MAC/VLAN ID, and logged on user.

In this way, Synoptek provides the server (or host) connected to each port along with the corresponding IP address, user (VPN, Domain or AAA), location (switch or wireless controller), and the last and first seen time information.



3.16 LAYER 2 TOPOLOGY WITH LOCATION

Synoptek can visualize your layer 2 topology for each switch or router along with VLAN ID and server information directly in the Synoptek Topology View. By clicking on the '+' icon on any switch or router in the Topology view, and the latest layer 2 topology information for that device will be shown immediately to the Synoptek analyst.

The dynamic user identity and location mapping also helps to improve incident response time, investigations, planning, and operational changes. The identity and location information along with the historic event details can be exported into PDF or CSV formats and emailed to the applicable administrator.

INSTALLATION AND CONFIGURATION

4.1 INSTALLATION

Synoptek installation can be scheduled to be performed within a 4-hour service window and is non-disruptive to your systems. The SIEMaaS collector is a virtual appliance that is capable of operating on ESX, KVM or HyperV. The collector will require at least 2 cores, 4GB of memory and 40gb of hard drive space. A virtual machine will need to be provisioned for Synoptek's use. In the event that a virtual machine is not available an appliance can be provided.

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4.2 EASY TO SCALE

A single appliance can take multiple inputs of network traffic and cover up to tens of thousands of individual machines, depending on peak traffic volumes.

4.3 INITIAL CONFIGURATION

The SIEM initially takes 4-6 weeks to become effective effectively tuned. Ongoing tuning, which is included in the service, will progressively provide improvement in data quality.

5 SECURITY SERVICES

5.1 SECURITY INFORMATION AND EVENT MANAGEMENT (SIEM) SERVICE | CORE SERVICE

Synoptek's Security Information and Event Management (SIEM) service includes 24x7x365 automated monitoring and alerting through advanced log correlation, contextual analytics, big data analysis and Synoptek's custom-tuned rule database. Synoptek's robust, scalable solution provides you with automated notifications with human oversight for onpremise devices including firewalls, routers, unified threat management devices, switches, servers and all other devices for which there is a preconfigured SIEM parser (See Appendix B for list of available parsers).

5.2 SERVICE LEVEL OBJECTIVE

Synoptek will continuously monitor for threats as presented by the SIEM. Threat indicators will be assessed, and incidents will be categorized into three levels of severity. The most detrimental threats are categorized with the moniker "Severe Threat" (ST), and for those, Synoptek will gather and document the necessary context and activity logs required to act. Notification will be provided in writing to the customer's designated alert contact. See Appendix A for Threat Indicator Levels and their associated definitions.

5.3 SYSTEM TUNING

Synoptek is responsible for detecting network anomalies and sorting out the bad traffic patterns from among the vast false positive bad traffic patterns that show up on our screens hourly. As a result, Synoptek has its interests aligned with those of its clients to reduce false positives and increase the signal to noise ratio of potential threats. An initial 4-6 weeks of tuning are required before the system becomes effective. Ongoing tuning, which is included in the service, will progressively provide improvement in report data quality.

5.4 MONTHLY SECURITY ADVISORY

This service includes a Monthly recurring information security review meeting. In this meeting, Synoptek will lead a review of the prior Month's threats, discuss any new threat vectors, and recommended changes to systems or policies. This will be conducted via a conference call.

5.5 INCIDENT INVESTIGATION

Synoptek's Incident Analysts are experts in defence, intelligence and interpreting suspicious activities around probable threats. This process includes analysing traffic entering, leaving as well as traversing within your network. Incident analysis of this kind is often like finding a needle in a hay stack and requires skills and understanding far beyond the normal abilities of most network professionals.

For every incident received, our analysts draw on their expertise, external sources of intelligence and the context of the network before taking an informed action on the threats faced. Investigation activities include detailed log analysis, and looking for suspicious trends.

Synoptek will open a ticket for each incident with a threat indicator of High Threat or Severe Threat. Threat indicators of Severe Threat will be opened as a service ticket with an initial priority of 'P2 – User Expedite'. Threat indicators of High Threat will be opened as a service ticket with an initial priority of P3. Service ticket investigation work will be performed in accordance with the Synoptek Managed Services SLA. Service Ticket priority levels may change during the course of Synoptek's investigation.

5.6 COVERAGE LIMITATIONS

This service includes investigation for all incidents with threat indicators of either High Threat (Ticket opened as P3) or Severe Threat (Ticket opened as 'P2 – User Expedite'). Due to the variable nature of security incident investigation, tickets opened for investigation shall be worked until root cause analysis can be identified, up to 5 hours.

5.7 COMPLIANCE REVIEW SERVICE

With this additional service, Synoptek's Compliance Review Service provides monitoring and response that meets regulatory requirements for PCI, FFIEC and HIPAA. With this service, you receive a dedicated team of Synoptek's security analysts who perform daily review of all your logs and notifications, 7 days a week, 365 days a year. Each day's review is tracked and logged to prove regulatory compliance. If any significant issues are found during the daily review, a notification is created and sent to you.

6 MATRIX OF SERVICE PACKAGES

Service Name	Package Details
SIEM-as-a-Service	SIEM Service
SIEM + Compliance	SIEM + Compliance Review Service

7 SERVICE UNIFORMITY

Synoptek's SIEM as a Service allows you the flexibility to choose the service package that's right for you and your organization. As such, once you've made a service selection, that selection holds true for a minimum 12 months from the service start date. For example, you select the SIEM Service, but you can still choose to add Compliance Review later; doing so, however, refreshes the 12-month minimum timeframe before your service package could scale back.

In addition to the above, all subscribed devices must maintain the same unified service package across the subscription. For example, in order for any device to subscribe to either the Compliance Review Service or SIEM Service, all subscribed devices would need to adhere to the same service package. Preference is given to the Compliance Review Service in the event that a change order or other service altering request is made that does not fully comply with the above.

8 TECHNICAL SUPPORT AND MONITORING

Synoptek will provide support for troubleshooting and resolution for the local appliance that will be monitored by Synoptek's Security Services Team. In addition, a web-based ticketing system to support tickets, track, and provide correspondence for any support related issue. All communication will be handled through the Ticket System.

Synoptek will remediate issues related to the local appliance, identified either via monitoring and notification, or those initiated through contacting the Service Desk. In both cases, a service ticket will be created and prioritized based on severity. The service desk will attempt to resolve the issue remotely, escalating to level 2, then level 3 engineers as required. If the issue cannot be resolved remotely, a field technician will be dispatched.

9 SERVICE LIMITATIONS

Synoptek's SIEM as a Service is an excellent addition to an organization's strategy of defense in depth. Some threat attack users and systems in ways that may not immediately present any detectable network traffic. As a result, this service alone cannot detect all threats and is best used in conjunction with other protective measures. Not all threats create anomalous network activity and thus will not be detected and reported. Furthermore, this service differs from a threat prevention service in that it is meant to detect the threats that manage to bypass your other security systems and protective barriers. While this service cannot prevent any intrusion, its utility is in early detection, and investigation.

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Note that while access to the SIEM is limited to Synoptek staff, it may be presented to customer staff in monthly threat advisories as well as when presenting critical threat information.

10 VIRTUAL APPLIANCE

It is important to reiterate that the SIEM Collector is a Virtual Appliance. If the target environment does not currently support virtualization and hardware needs to be procured to facilitate installation of the Collector, the expense of said hardware will be outside of the price of the SIEMaaS offering.

11 REPORTING

You will receive a Monthly Threat Intelligence Report.

12 APPENDIX A

Severity Icon

Description



Severe Threat

Any incident (ongoing or detected) that has been determined to have the potential for severe commercial, legal and/or operational impact.

Severe Threats are those that should be raised to the executive level immediately as data and/or resource confidentiality, integrity and/or availability are at significant risk.



High Threat

Any incident (ongoing or detected) that has been determined to have the potential for moderate commercial, legal and/or operational impact.

High Threats are those that could indicate malicious use of corporate resources, are active infections or are otherwise placing the organization's data and/or resource confidentiality, integrity and/or availability at moderate risk.

13 APPENDIX B

Vendor	Model
3Com	TippingPoint UnityOne IPS
3Com	TippingPoint Security Management System
Adtran	NetVanta
Adtran	Multiplexer
AirTight	SpectraGuard
AirWatch	MDM
AKCP	SensorProbe

Vendor	Model	
Avaya	Session Manager	
Avaya	Media Gateway	
Barracuda	Spam Firewall	
Bit9	Security Platform	
Bit9	Carbon Black	
Blue Coat	SGOS Web Proxy	
Blue Coat	CacheOS	

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Alcatel-Lucent	TiMOS
Alcatel-Lucent	AOS
Alcatel-Lucent	8950 AAA
Amazon	AWS EC2
Amazon	AWS CloudTrail
Amazon	AWS RDS
Apache	Apache Tomcat
APC	UPS
<u>Vendor</u>	<u>Model</u>
APC	PDU
APC	Generic
APC	NetBotz
APC	NetBotz Rack Monitor
Apple	Mcintosh
Apple	Mac OSX
Apple	iOS
Arista	EOS

Box.com	Box
Brocade	San Switch
Brocade	ServerIron ADX
BSDI	BSD OS
Caldera	OpenLinux
CentOS	Linux
Checkpoint	FireWall-1
Checkpoint	SmartCenter
<u>Vendor</u>	Model
Checkpoint	Virtual Firewall
Checkpoint	VSX
Checkpoint	Provider-1 MDS
Checkpoint	Provider-1 CMA
Checkpoint	Provider-1 CLM
Checkpoint	Provider-1 MLM
Checkpoint	UTM-1 Edge
Checkpoint	IPSO

Aruba	ArubaOS WLAN AP
Aruba	ArubaOS WLAN Controller
Aruba	ClearPass PolicyManager
Astaro	Security Gateway
Avaya	ERS
Avaya	Communication Manager

Checkpoint	Firewall-1 SPLAT
Checkpoint	FireWall-1 GAIA
Cisco	ASA
Cisco	PIX
Cisco	FWSM
Cisco	IPS

Vendor	Model
Cisco	CSA Management Center
Cisco	IOS
Cisco	CatOS
Cisco	NX-OS
Cisco	ACE
Cisco	WLAN AP
Cisco	WLAN Controller
Cisco	IOS WLAN AP
Cisco	IOS WLAN Controller

Vendor	Model
Cisco	Meraki Firewall
Cisco	Meraki Switch
Cisco	WAAS
Cisco	FireAMP
Cisco	FirePOWER
Cisco	Telepresence Video Comm Server
Cisco	CiscoWorks NCM
Cisco	FireAMP Cloud
Citrix	Presentation Server

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Cisco	IronPort AsyncOS Mail
Cisco	Cisco Secure ACS
Cisco	VPN 3K
Cisco	SAN-OS
Cisco	Call Manager
Cisco	Unity Connection
Cisco	UCS
<u>Vendor</u>	Model
Cisco	CleanAccess
Cisco	ONS
Cisco	BOS
Cisco	VoIP Phone
Cisco	IronPort AsyncOS Web
Cisco	CBOS
Cisco	Presence Server
Cisco	Contact Center
Cisco	Tandberg VCS

Citrix	NetScaler
Compuware	Dynatrace App Monitoring
Conectiva	Linux
Cradlepoint	Router
Cray	Unicos
Crypto AG	Link Encryption
CyberArk	Enterprise Password Vault
<u>Vendor</u>	Model
Cylance	Protect
Cyphort	Cortex
Damballa	Failsafe
Debian	Linux
Dell	MFP
Dell	EqualLogic
Dell	Blade Server
Dell	Force10
Dell	Compellent Storage

Cisco	Telepresence MCU
Cisco	LWAPP WLAN Controller
Cisco	Meraki Cloud Controller
Cisco	Meraki WLAN AP

Dell	PowerConnect
Dell	NSeries
Eaton	PDU
EMC	RSA Authentication Manager

Vendor	Model
EMC	Clariion
EMC	VNX
EMC	Data Domain
EMC	Generic
Enterasys	Switch/Router
ESET	Nod32
Extreme	Extremeware
Extreme	XOS
F 5	Big-IPOS
Fedora	Linux
FireEye	MPS
FireEye	HX
ForeScout	CounterACT
Fortinet	FortiSIEM
Fortinet	FortiOS
Fortinet	FortiManager

Vendor	Model
Google	Android
Google	ChromeOS
Green League	WVSS
Green League	RSAS
нзс	Comware
НР	ProCurve
НР	HPUX
НР	JetDirect
НР	LaserJet
НР	Tru64 Unix
НР	OpenVMS
НР	True64 Unix
НР	BladeSystem
НР	VSeries
НР	3Com Switch
Huawei	VRP

Vendor	Model
Foundry	Ironware
FreeBSD	FreeBSD
Freshmeat-org	syslog-ng
Generic	Generic
Generic	JEE App Server
Generic	Linux DHCP
Generic	DHCP
Generic	Linux
Generic	Unix
Generic	Printer
Generic	Android
Generic	Postfix
Gentoo	Linux

Vendor	Model
IBM	ISS Proventia
IBM	ISS RealSecure
IBM	ISS SiteProtector Mgmt Server
IBM	AIX
IBM	DB2
IBM	WebSphere App Server
IBM	OS400
IBM	Guardium
Imperva	Securesphere DB Monitoring Gateway
Imperva	Securesphere DB Security Gateway
Imperva	Securesphere Web App Firewall
Imperva	Securesphere MX Management Server
InfoBlox	NiOS

Vendor	Model
ISC	BIND DNS
Isilon	OneFS
Juniper	SSG ScreenOS
Juniper	Netscreen ScreenOS
Juniper	Security Central Manager
Juniper	Netscreen IDP
Juniper	JunOS
Juniper	Steel-Belted RADIUS
Juniper	Secure Access
Juniper	SRX JunOS
Juniper	DDoS Secure
Lantronix	SLC Console Manager
Liebert	HVAC
Liebert	UPS
Liebert	FPC
Mandrakesoft	Mandrake Linux

Vendor	Model
Microsoft	Windows XP
Microsoft	Windows Vista
Microsoft	Windows Server 2008
Microsoft	Windows Server 2000
Microsoft	SQL Server
Microsoft	IIS
Microsoft	Exchange Server
Microsoft	IAS
Microsoft	DNS
Microsoft	DHCP
Microsoft	TCP/IP Services
Microsoft	Windows NT
Microsoft	Domain Controller
Microsoft	PPTP/L2TP VPN
Microsoft	Virtual PC 2005
Microsoft	Windows 7

Vendor	Model
McAfee	Intrushield
McAfee	ePolicy Orchestrator
McAfee	Common Management Agent
McAfee	Host Intrusion Protection for Servers
McAfee	Host Intrusion Protection for Desktops
McAfee	Sidewinder Firewall
McAfee	WebGateway
McAfee	Vulnerability Manager
McAfee	Reconnex iGuard
McAfee	Stonesoft IPS
Microsoft	ISA Server
Microsoft	Windows
Microsoft	Windows Server 2003

Vendor	Model
Microsoft	Windows 98
Microsoft	Windows Me
Microsoft	Virtual Server 2005
Microsoft	Virtual PC 2004
Microsoft	Virtual PC 2007
Microsoft	SharePoint
Microsoft	Windows 8
Microsoft	Windows Server 2012
Microsoft	Forefront UAG
Microsoft	Windows Server 2008 R2
Microsoft	Windows Server 2012 R2
Microsoft	Windows Server 2003 R2
Microsoft	Azure Audit

Vendor	Model
Microsoft	Azure Compute
MikroTik	RouterOS
Motorola	WiNG WLAN AP
Motorola	AirDefense
Nagios	Mgmt Server
nCircle	Suite360 Scanner
NetApp	DataONTAP
NetBSD	NetBSD
NetMotion	Mobility XE
Nginx	Web Server
Nimble Storage	NimbleOS
Nortel	BayStack
Nortel	AlteonOS
Nortel	ERS
Nortel	Passport
Novell	Netware

Vendor	Model
Panasonic Aero	Content Server
Panasonic Aero	Cabin Terminal
Panasonic Aero	Area Distribution Box
Panasonic Aero	Aircraft Interface
Panasonic Aero	Generic
pfSense	BSD Firewall
Postgres	PostgreSQL
Pulse Secure	Pulse Connect
QNAP	Turbo NAS
Qosmos	DeepFlow
Qualys	QualysGuard Scanner
Qualys	Web Application Firewall
Radvision	IP/VC Gateway
Rapid7	NeXpose Security Scanner
Redhat	Linux
Redhat	Enterprise Linux

Vendor	Model
NSFOCUS	NIDS
Nutanix	Controller VM
OKTA.com	OKTA
OpenBSD	OpenBSD
OpenSuSE	Linux
Oracle	Database Server
Oracle	MySQL
Oracle	WebLogic App Server
Oracle	Acme Packet Controller
Palo Alto	PAN-OS
Panasonic Aero	Broadband Controller
Panasonic Aero	Network Controller
Panasonic Aero	File Server

Vendor	Model
Redhat	JBOSS App Server 5.x
Redhat	JBOSS App Server 6.x
Redhat	JBOSS App Server
RIM	BlackBerry
Riverbed	Steelhead
Ruckus	SmartOS WLAN AP
Ruckus	SmartOS WLAN Controller
Salesforce	Salesforce Audit
Samsung	Ubigate
SangFor	VPN
SCO	Unixware
SCO	OpenServer
Sendmail.org	Sendmail Mail Server

Vendor	Model
SGI	Irix
Sharp	AR
Slackware	Linux
Snort-org	Snort IPS
Sonicwall	SonicOS
Sonicwall	Global Security Manager
Sonicwall	Aventail VPN
Sophos	Sophos Endpoint Control
Sophos	Email Gateway
Sophos	UTM
Sophos	Web Filter
Sourcefire	Sourcefire3D IPS
Sourcefire	DefenseCenter
SourceFire	NetworkAMP
Squid-cache-org	Squid Web Proxy
SSH Comm Security	CryptoAuditor

Vendor	Model
TrendMicro	IDF
TrendMicro	Deep Security Manager
Tripp Lite	UPS
Trustix	SecureLinux
Tufin	SecureTrack
Tumbleweed	MailGate
TurboLinux	TurboLinux
Ubuntu	Linux
Untangle	Untangle Security Gateway
Vasco	DigiPass
VMware	Generic
VMware	ESX Server
VMware	ESXi Server
VMware	vCNS Manager
VMware	vShield
WatchGuard	Firebox

Vendor	Model
Sun	Solaris
SUN	Glassfish App Server
Sun	SunOS
SuSE	Linux
Symantec	Manhunt Network Security
Symantec	Endpoint Protection Service
Symantec	Data Loss Prevention
Tektronix	Phaser
Tenable	Nessus Security Scanner
Tenable	Nessus6 Security Scanner
Topsec	TOS
Toshiba	eStudio
TrendMicro	Antivirus Manager

Vendor	Model
WatchGuard	System Manager
Websense	Web Security
Websense	Mail Security
Websense	Log Server
WindRiver	BSD OS
WindRiver	VxWorks
Xerox	Phaser
YXLink	Vuln Scanner
Zenith Infotech	Zenith ARCA