



CYBERSHark WHITE PAPER

PCI AUDIT FRAMEWORK

**Security is everyone's concern, but
it's our business.**

WWW.CYBERSHARKINC.COM

PCI SECURITY AUDIT FRAMEWORK:

Let CYBERSHARK Help You Take The Guesswork Out Of Compliance.

CYBERSHARK makes it simple to show compliance with the integrated Security Audit Framework. The out-of-the-box web interface provides end users with a detailed checklist to give to an auditor explaining exactly how devices are configured and what it is being reported. Furthermore, guidance is provided that tells users which affected devices to be concerned with, how to group them in the product, and what to monitor based on the specific section of the regulation.

CYBERSHARK Security Audit Framework gives you the information you need to demonstrate compliance to the auditor. CYBERSHARK provides you the knowledge needed to become the compliance expert

Reduce the risk of non-compliance with CYBERSHARK Security Audit Framework supports your compliance program to make it more effective, including:

- **Protecting and monitoring ongoing compliance from insider threat and data breaches**
- **Providing real-time visibility into threats • Automating audit reporting of compliance assets**
- **Decreasing time and resources spent on meeting compliance requirements**
- **Helping gather information for self-assessments**
- **Giving 3rd party auditors information they need to evaluate organizational compliance**



PCI SECURITY AUDIT FRAMEWORK:

BECOME A PCI SECURITY AUDIT FRAMEWORK EXPERT:

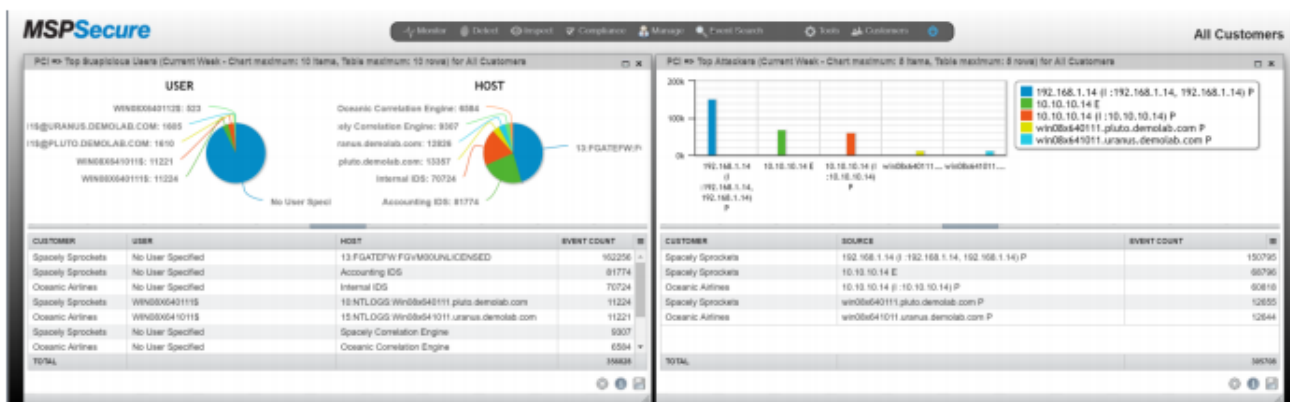
More and more organizations are struggling to keep ahead of PCI requirements. In 2014, four out of five companies were still failing to meet standards. Worse, less than 1/3 of companies that have managed the compliance hurdle were still compliant less than a year after their last successful validation.¹ This is because compliance isn't just a point in time; it is an ongoing process where you must monitor, measure and report. Companies with responsibility for consumer credit card information face an ongoing challenge to ensure the integrity and security of credit card data. And in 2005, information security accountability intensified for merchants and payment service providers when the Payment Card Industry (PCI) Data Security Standard was introduced worldwide. Since then, all merchants and service providers that store, process, or transmit credit card data must comply with the PCI mandates or can face costly consequences such as:

- **Fines of \$5,000 to \$25,000 a month for each merchant who does not validate PCI compliance**
- **An estimated 78 percent of consumers declining to shop where a breach occurs**
- **The cost of a fraudulent or erroneous data breach ranging from \$182 to \$350 per data record**
- **Merchants facing the possibility of bankruptcy without the appropriate data security practices in place to maintain PCI compliance**

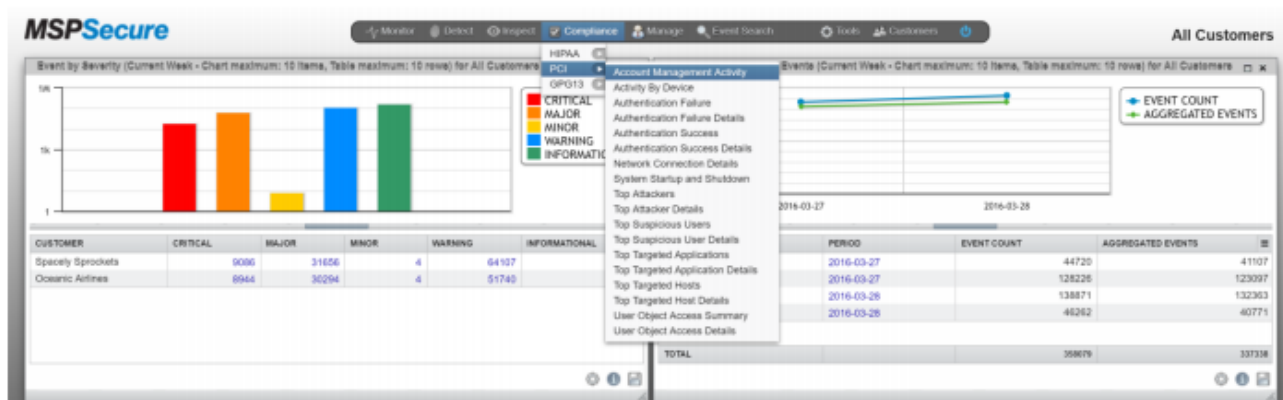


PCI SECURITY AUDIT FRAMEWORK:

The PCI Security Audit framework walks you through each of the regulations and shows you how to become PCI compliant. CYBERShark Security and Compliance platform give you the needed reports to provide auditors proof of compliance with regulations.



CYBERShark PCI Report Examples




Easy Access to Critical Compliance Reports

CYBERShark helps you manage your PCI-affected assets in real-time, and enables you to demonstrate your documented efforts to comply with PCI Requirements.



PCI SECURITY AUDIT FRAMEWORK:



Compliance with PCI demands that you continuously monitor and manage the cardholder data environment – demonstrating a proactive foundation for effective security against breaches and attacks. The PCI Security Audit Framework helps you do this. To protect against the threat of data compromise, PCI established a list of 12 overall requirements that merchants, service providers and other members that store, transmit and process cardholder data must have meet by certain deadlines based on their PCI merchant level. These requirements include the use of network configuration management, data encryption, end-user access controls and user activity monitoring and logging, as well as the need to regularly test security systems and processes.

PCI DSS compliance isn't a fire drill. It's not something you can react to. To ensure your compliance program is sustainable and effective it must be part of your "business as usual." CYBERSHARK can help you integrate PCI DSS Compliance into your regular risk-management strategy. In breached organizations, these were the framework controls that were continuously the lowest in compliance.

- **Testing Security Systems**
- **Maintaining Secure Systems**
- **Logging and Monitoring**

These are all core competencies addressed by CYBERSHARKS' integrated Security Audit Framework. Let CYBERSHARK help your organization avoid these critical failure areas. CYBERSHARKS' integrated Security Audit Framework can help you meet the requirements of PCI 1.2, and help you achieve a security posture that is optimal for your organization

(See Table 1).



SECURITY AUDIT FRAMEWORK:



PCI CONTROL OBJECTIVE	PCI REQUIREMENT	CYBERSHARK CAPABILITIES
Build and Maintain a Secure Network	<p>1) Install and maintain a firewall configuration to protect data</p> <p>2) Do not use vendor-supplied defaults for system passwords and other security parameters</p>	<ul style="list-style-type: none"> Monitors the transitions of the firewalls, routers and the direction of stateful traffic Alerts on configuration modifications and if the configuration modifications are in violation of policies approved for business purposes from the PCI point of sale, Internet services, services provider, and internal trust relationships Monitors and alerts on wireless policy violations concerning modification of approved WPA and WPA2 configurations and default SSID configurations Monitors and alerts on non-approved business services for specific assets Monitors and alerts on SSH, VPN, SSL/TLS transactions between trust relationships and their assets
Protect Cardholder Data	<p>3) Protect stored cardholder data</p> <p>4) Encrypt transmission of cardholder data across open, public network</p>	<ul style="list-style-type: none"> Monitors the trust relationships of the assets storing cardholder data Alerts on the violations in the control environment protecting access to data Correlates authentication and authorization permissions of attempts to access PCI assets storing encryption keys Monitors and alerts on VPN encryption domain events and relationships in each control environment Monitors and collects data on point-to-point VPN IPSEC transactions, SSL web services, wireless WPA or WPA2 security events and policy violations.
Maintain a Vulnerability Management Program	5) Use and regularly update anti-virus software	<ul style="list-style-type: none"> Monitors and alerts on multiple enterprise anti-virus deployments across the PCI control environment Correlate updated vulnerability information to PCI assets to prioritize risks and threats



SECURITY AUDIT FRAMEWORK:



PCI CONTROL OBJECTIVE	PCI REQUIREMENT	CYBERSHARK CAPABILITIES
Maintain a Vulnerability Management Program	6) Develop and maintain secure systems and applications	<ul style="list-style-type: none"> Correlates vulnerability scanner data from PCI-approved scanner vendors, and can integrate and normalize data if more than one scanner type is used for external and internal scans Incorporates a Knowledge Database that includes feeds from the National Vulnerability Database to identify all newly discovered vulnerabilities Incorporates incident response and helpdesk capabilities, network management, and CMDB integration to track impact from configuration management changes Provides centralized documentation of configuration changes to critical systems
Implement Strong Access Control Measures	7) Restrict access to cardholder data by business need-to-know	<ul style="list-style-type: none"> Monitors and reports on failed, attempted, and successful authentications and authorizations on PCI assets and devices
	8) Assign a unique ID to each person with computer access	<ul style="list-style-type: none"> Monitors, records and alerts on transactions from SECURID, RADIUS, TACACS+, and leading VPN client vendors, Cisco, Checkpoint, Nortel Networks Monitors disparate authentication methods concurrently normalizing and categorizing their events through an enterprise distributed environment Provides centralized repository and reporting of access control changes to systems
	9) Restrict physical access to cardholder data	<ul style="list-style-type: none"> Serves as central repository for physical security logging and reporting of access and access control changes
Regularly Monitor and Test Networks	10) Track and monitor all access to network resources and cardholder data	<ul style="list-style-type: none"> Monitors and alerts on user or system access to network devices, applications, POS systems, and other IT devices that maintain cardholder data Delivers automated audit trail to support forensic requirements
	11) Regularly test security systems and processes	<ul style="list-style-type: none"> Reviews system component logs by performing initial first pass filtering Monitors security systems to validate compliance status
Regularly Monitor and Test Networks	12) Maintain a policy that addresses information security for employees and contractors	<ul style="list-style-type: none"> Reports on and documents incident management resolution and escalation procedures Documents adherence to security policies Monitors access to security policy data




FULL PCI COMPLIANCE SUPPORT



CYBERSharks' Security Audit Framework provides audit-oriented guidance, reports and correlation rules that track and monitor PCI assets and events, allowing you to proactively manage compliance to protect cardholder data. Real-time monitoring and reporting allows you to reduce the cost of executing and documenting your PCI compliance initiatives.

ABOUT CYBERSHARK



CYBERShark is a pioneer of security and compliance solutions deployed and operated on premise, in the cloud or "as a Service" by providers of all sizes, government agencies and individual enterprises. Through our patented multitenant security information and event management (SIEM) technology, CYBERShark delivers unparalleled security visibility, prevents costly downtime, and achieves and maintains compliant operations at a lower cost to operate.

For more information, visit:

<http://www.cybersharkinc.com/>

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