GFI White Paper

PCI-DSS compliance and GFI Software[™] products

The Payment Card Industry Data Security Standard (PCI DSS) compliance is a set of specific security standards developed by the payment brands* to help promote the adoption of consistent data security measures that are needed to protect sensitive payment-card information



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Introduction

The standard applies to all organizations which hold, process, or exchange cardholder information from any card branded with the logo of the payment brand companies*.

*Payment brand companies include American Express, Discover Financial Services, JCB International, MasterCard Worldwide and Visa Inc. International.

There are 12 PCI DSS requirements that have been organized into six logically related groups. Please see **Chart** A below.

Chart A - PCI DSS summary

PCI REQUIREMENT

| 1. BUILD AND MAINTAIN A SECURE NETWORK | |
|---|----|
| Install and maintain a firewall configuration to protect cardholder data. | 1 |
| Do not use vendor-supplied defaults for system passwords and other security parameters. | 2 |
| 2. PROTECT CARDHOLDER DATA | |
| Protect stored cardholder data. | 3 |
| Encrypt transmission of cardholder data across open, public networks. | 4 |
| 3. MAINTAIN A VULNERABILITY MANAGEMENT PROGRAM | |
| Use and regularly update antivirus software or programs. | 5 |
| Develop and maintain secure systems and applications. | 6 |
| 4. IMPLEMENT STRONG ACCESS CONTROL MEASURES | |
| Restrict access to cardholder data by business need-to-know. | 7 |
| Assign a unique ID to each person with computer access. | 8 |
| Restrict physical access to cardholder data. | 9 |
| 5. REGULARLY MONITOR AND TEST NETWORKS | |
| Track and monitor all access to network resources and cardholder data. | 10 |
| Regularly test security systems and processes. | 11 |
| 6. MAINTAIN AN INFORMATION SECURITY POLICY | |
| Maintain a policy that addresses information security for employees and contractors. | 12 |

Simply stated, the basis of PCI DSS compliance is that merchants must demonstrate through representative systems and processes that they meet these requirements. It is the merchants' responsibility to achieve, demonstrate and maintain their compliance across all systems and processes in their organizations.

The required annual validation of compliance (internal or external) is dependent on the volume of card transactions, with larger volumes requiring more intensive external validation and those with a smaller number of card transactions needing only internal validation. Merchants with larger volumes of transactions must also have their compliance assessed by an independent assessor, a Qualified Security Assessor (QSA), while companies handling smaller number of transactions have the option of self-certification through a Self-Assessment Questionnaire (SAQ).

How GFI can assist in PCI DSS compliance

The remainder of this document outlines how GFI can assist you in meeting PCI DSS compliance. GFI Software is not in the services space and does not have a PCI service practice, and reading this document alone will not make you PCI compliant. The intent of this document is to provide you with GFI's understanding of the requirements, and how the GFI Software product line (in particular our products - GFI LanGuard™, GFI EventsManager™ and GFI EndPointSecurity™ can help you meet the PCI DSS compliance requirements created by the PCI Security Standards Council.

We have included several reference documents as part of this guide. For more detailed information regarding PCI DSS regulations, please see:

Chart B – GFI product – use in PCI DSS requirements outlines, by PCI sub-requirement, how GFI products can help you in meeting these requirements.

GFI Software can assist with PCI compliance with the help of specific features built into its solutions, and with reports that are available in the products.

Chart C – PCI DSS requirements – GFI product reports provides links to the actual product report. Just click on the link to see the sample report!

Chart D – Summary of all PCI DSS requirements; and

Chart E – PCI DSS requirements support in GFI products.

GFI Software has three cost-effective solutions that can assist you in meeting PCI DSS compliance. These tools, GFI EventsManager, GFI LanGuard and GFI EndPointSecurity, can help you meet the PCI DSS requirements 1, 2, 3, 5, 6, 7, 10, 11, and 12.

If you have any questions after reading this document, please do not hesitate to contact your sales representative at (888) 243-4329 or 919 379 3397 (outside the USA).

Chart B – GFI product – use in PCI DSS requirements

| GFI product | Explanation | Value of GFI product to PCI compliance | Level of compliance* |
|-------------------|---|--|----------------------|
| GFI EventsManager | 1.2 Requests examination and monitoring of the firewall/router configuration files in order to make sure that they are built in accordance with the PCI DSS specification. | GFI EventsManager can monitor changes in the configuration files of the network devices and report on those changes. | F, R |
| GFI LanGuard | 1.4 Requests that personal firewall software is deployed on the employee computers that are connected to the Internet. | GFI LanGuard can automatically deploy personal firewall software in the entire network and report which computers in the network do not have personal firewalls installed. | F, R |
| GFI LanGuard | 2.1 Requires analysis to make sure that systems do not use vendor-supplied defaults. | GFI LanGuard offers functionality to detect vulnerabilities caused by the use of vendor-supplied defaults and can report on the computers that have such vulnerabilities. GFI LanGuard offers an SNMP audit tool that can provide information on the existing community strings. | F, R |
| GFI LanGuard | 2.2.2 Requires detection of unnecessary and insecure services and protocols. | GFI LanGuard can detect such services and protocols, including open ports (<i>and trojan ports</i>) using its application detection, process inspection and services enumeration functionalities. The product can report on these findings as well as on computers that have unnecessary services or protocols installed. | F, R |
| GFI LanGuard | 2.2.3 For a sample of system components, critical servers, etc., requires that tests be performed to verify that the system security parameters are set correctly (according to the configuration standard defined in Requirement 2.2). | GFI LanGuard has an operating system audit functionality which enables it to read security policies and verify if certain settings are in place or not. GFI LanGuard reports on local machine users as well as users who never log on, and can even disable users. It can also enumerate password policy and enable auditing policies. | F, R |
| GFI LanGuard | 3.4 Requires the use of encryption software at endpoints and on other critical systems. | GFI LanGuard can detect the presence of encryption software across all network computers and report on the computers lacking this software. | F, R |

^{*}F = FEATURE, *R = REPORT

Chart B – GFI product – use in PCI DSS requirements continued

| GFI product | Explanation | Value of GFI product to PCI compliance | Level of compliance* |
|--------------------|---|---|----------------------|
| GFI LanGuard | 5.2 Requires that antivirus engines are kept up to date in the network. | GFI LanGuard can detect antivirus software that is not up to date and update it. It can also report on the computers lacking antivirus software or having outdated version of the software. | F, R |
| GFI Events Manager | 5.2 Requires that logs of antivirus software are enabled and retained. | GFI EventsManager can scan and centralize the logs of antivirus software and report on the data it gathers. | F, R |
| GFI LanGuard | 6.1 And 6.2 Require that all system components and software have the latest patches installed. Additionally, the use of vulnerability scoring is required. | Using its vulnerability scanning and patch detection capabilities, GFI LanGuard can periodically scan the entire network to detect new vulnerabilities including SANS Top 20, CVE lists and OVAL. GFI LanGuard is CVE and OVAL certified; it can automatically deploy new patches network-wide and can assign a score and report on the vulnerabilities discovered across the network, the network patching status and on all vulnerable hosts. | F, R |
| GFI EventsManager | 7.1 Requires that monitoring should be in place to make sure that configured user accounts and their corresponding access rights are complying with the PCI DSS standards. | GFI EventsManager can monitor changes to user accounts and groups as well as changes to security rights assignment and data access lists; GFI EventsManager can also report on the data it gathers in this report. | F, R |
| GFI EventsManager | 8.5.1 Requests control over a series of processes related to user account management. | GFI EventsManager can monitor account management events and report on the changes. The report can be used to detect any unauthorized changes to user accounts and user account groups. | F, R |
| GFI LanGuard | 8.5.3, 8.5.9 and 8.5.10 Require monitoring of password policy of computers across the network in order to ensure that computers are compliant with the password-related sub requirements. | GFI LanGuard can perform networkwide monitoring of password policies and report on the findings. | F, R |

^{*}F = FEATURE, *R = REPORT

Chart B – GFI product – use in PCI DSS requirements continued

| GFI product | Explanation | Value of GFI product to PCI compliance | Level of compliance* |
|------------------------------------|---|--|----------------------|
| GFI EventsManager /GFI LanGuard | 8.5.4 and 8.5.5 Requires immediate revocation of the user accounts of terminated or inactive users. | GFI EventsManager can monitor the "user account disabled" and "user account removed" events and report on this data. The report can be used to verify if accounts of the discontinued employees or employees on leave have been disabled or removed. Specific to requirement 8.5.5, the corresponding testing procedures require that you verify that there are no inactive accounts enabled; GFI EventsManager can monitor the activities of users and hence help determine the last login times of the user accounts. GFI LanGuard offers a user enumeration tool that shows all user accounts in a domain, and highlights the disabled accounts. This list can also be used to cross-reference user account status with discontinued employees. GFI LanGuard can also disable selected user accounts. | F, R |
| GFI EventsManager /GFI LanGuard | 8.5.6 Requires that the activity of accounts used by vendors is monitored continuously. | GFI EventsManager can monitor user account activity by monitoring security logs of corresponding computers. GFI LanGuard can enumerate user accounts from the network and enable/disable them as necessary and report on this data. | F, R |
| GFI EventsManager | 8.5.13 Requires verification of account lockout policies. | GFI EventsManager is able to monitor failed logons and alert on situations where the number of failed logons passes a preconfigured threshold and report on this. | F, R |
| GFI EventsManager | 8.5.16 Requires monitoring of access to databases holding cardholder data. | GFI EventsManager can perform this task and report on the findings for databases implemented on Microsoft SQL Server technology, using the SQL audit functionality. This product is able to monitor all aspects of database access and usage under the above circumstances in compliance with C2 security level. | F, R |
| GFI EventsManager | 10.0 Requests that audit trails are recorded and retained. | GFI EventsManager is able to record audit trails throughout the network and retain them in a secured database. The product is able to record all information defined under section 10.3 about all necessary events/actions defined by the sub points of requirement 10. GFI EventsManager can also report on the data. | F, R |
| GFI EventsManager | 10.2.2 Requires auditing of administrative users. | GFI EventsManager can alert and report on events relating to the administrator. | F, R |

^{*}F = FEATURE, *R = REPORT

Chart B – GFI product – use in PCI DSS requirements continued

| GFI product | Explanation | Value of GFI product to PCI compliance | Level of compliance* |
|----------------------|--|--|----------------------|
| GFI EventsManager | 10.4 Requires time synchronization of all critical system clocks. | GFI EventsManager is able to monitor events generated by the time synchronization mechanisms and the "out of sync" errors thrown by the operating system whenever system clocks are not synchronized. | F, R |
| GFI EventsManager | 10.5 Requires securing audit trail data. | GFI EventsManager uses a database engine which is able to provide granularity in terms of access rights which is required. Additionally, it has built-in capabilities to define roles for using the audit trails. One can configure certain users for read-only access, prevent access of other users or offer full access for authorized personnel. It can also monitor object access events in order to determine which files are accessed and by whom. | F, R |
| GFI EventsManager | Report on Requirement 10.6 | GFI EventsManager can automatically generate daily reports and save them or email them to the administrators for review in compliance with requirement 10.6. | R |
| GFI EndPointSecurity | 11.1. b Requires that a tool is used to determine all wireless/removable devices which have been used to correct the computer systems. | GFI EndPointSecurity is able to both detect the devices currently connected, and the ones connected in the past, and control access to them on a "per user"/"per device type"/"per connectivity protocol" basis. | F |
| GFI LanGuard | 11.2 Requires periodic use of a vulnerability scanner. | GFI LanGuard is a full-fledged OVAL and CVE vulnerability scanning and patch management solution that can be used to comply with this requirement. | F |
| GFI EventsManager | 11.4 Requires the use of IPS/IDS systems. | GFI EventsManager is a log monitoring and management solution that can detect security breaches at host level after they have occurred (<i>based on logs</i>) and hence can act as a host-based intrusion detection system. | F, R |
| GFI EventsManager | 11.5 Requires file integrity monitoring. | GFI EventsManager can achieve this task by monitoring object access events on files and folders. | F, R |

^{*}F = FEATURE, *R = REPORT

Chart B – GFI product – use in PCI DSS requirements continued

| GFI product | Explanation | Value of GFI product to PCI compliance | Level of compliance* |
|----------------------|---|---|----------------------|
| GFI LanGuard | 12.1.2 Requires an annual risk assessment process. | GFI LanGuard is a fully fledged OVAL and CVE vulnerability scanning and patch management solution, also offering other risk assessment features such as trojan port detection, and hence can be used to comply with this requirement. | F, R |
| GFI EndPointSecurity | 12.3 Requires the use of technology to develop policies and control endpoints (<i>employee-facing technologies</i>) in order to prevent data leakage. | GFI EndPointSecurity offers functionality to detect and control access to all types of removable devices, including wireless devices, which the employees might use to extract cardholder information from the company systems. GFI EndPointSecurity also offers extensive reporting on the usage history of such devices including technical details, user information and data transferred. | F, R |

^{*}F = FEATURE, *R = REPORT

| Required ReportPack | Sub-requirement | GFI product report link | What report provides |
|--|---|---|--|
| REQUIREMENT 1 : Install and maintain a firewall configuration to protect cardholder data. | | | cardholder data. |
| GFI LanGuard | 1.2 Examine firewall and router configurations to verify that inbound and outbound traffic is limited to only protocols that are necessary for the cardholder data environment. | PCI DSS requirement 1.2 - open ports | Open ports report : The report will list all open ports on target machines or devices. The product uses multiple advanced techniques for identifying the open ports and the protocols using them. It is also able to identify over 700 trojan ports, and give information about the malware using them. |
| GFI LanGuard | 1.4 Install personal firewall software on any mobile and employee-owned computers with direct connectivity to the Internet. | PCI DSS requirement 1.4 - installed firewall applications | Installed firewall applications report: This report can be customized to show all hosts having the personal firewall application installed. |
| REQUIREMENT 2: Do | not use vendor-supplied defaul | ts for system passw | ords and other security parameters. |
| GFI LanGuard | 2.1 Always change vendor- supplied defaults before installing a system on the network. | PCI DSS requirement 2.1 - low security vulnerabilities | Low security vulnerabilities report: The report shows the low security vulnerabilities found on the network; one common source of these vulnerabilities are the vendor supplied defaults. |
| GFI LanGuard | 2.2.2 Disable all unnecessary and insecure services and protocols (services and protocols not directly needed to perform the devices' specified function). | PCI DSS requirement 2.2.2 - system information | System information report: This report lists detailed technical information for each host machine, including services, installed applications, policies and devices. |
| GFI LanGuard | 2.2.2 Disable all unnecessary and insecure services and protocols (services and protocols not directly needed to perform the devices' specified function). | PCI DSS requirement 2.2.2 - services | Services report : This report lists service information for each host machine, including description, status, startup type and account name. |
| GFI LanGuard | 2.2.2 Disable all unnecessary and insecure services and protocols (services and protocols not directly needed to perform the devices' specified function). | PCI DSS requirement 2.2.2 - open ports | Open ports report : This report lists open ports for each host machine, including port number and name. |
| GFI LanGuard | 2.2.2 Disable all unnecessary and insecure services and protocols (services and protocols not directly needed to perform the devices' specified function). | PCI DSS requirement 2.2.2 - open shares | Open shares report : This report lists the open shares across the network. The information is used to determine if shares other than the authorized ones are open, and need to be removed. |
| GFI LanGuard | 2.2.3 Configure system security parameters to prevent misuse. Note: The report only covers audit policy and password policy. | PCI DSS requirement 2.2.3 - audit policy | Audit policy report: This report also lists the audit policy and password policy for all computers in the network. This information is used to determine if there are any computers where password policies are not set to change passwords every 90 days. |

| report Link | Required ReportPack | | • | What report provides |
|-------------|---------------------|--|---|----------------------|
|-------------|---------------------|--|---|----------------------|

REQUIREMENT 3: Malicious individuals (external and internal to a company) often use vendor default passwords and other vendor default settings to compromise systems. These passwords and settings are well known by hacker communities and are easily determined via public information.

| GFI LanGuard | 3.4 Render PAN, at minimum, | PCI DSS | Disk encryption applications report: |
|--------------|-----------------------------|-------------------|---|
| | unreadable anywhere it is | requirement 3.4 | This report shows the hosts that have |
| | stored. | - disk encryption | encryption software installed. It can |
| | | applications | also be customized to show the hosts |
| | | | that don't have the encryption software |
| | | | installed. |

REQUIREMENT 5: Use and regularly update antivirus software or programs.

Malicious software commonly referred to as "malware" – including viruses, worms, and trojans – enters the network during many business-approved activities including employees' e-mail and use of the Internet, mobile computers, and storage devices, resulting in the exploitation of system vulnerabilities. Antivirus software must be used on all systems commonly affected by malware to protect them from current and evolving malicious software threats.

| GFI LanGuard | 5.2 Ensure that all antivirus | PCI DSS | Antivirus applications report: |
|--------------|-------------------------------|-----------------|---------------------------------------|
| | mechanisms are current, | requirement 5.2 | This report shows all the antivirus |
| | actively running and capable | - antivirus | applications installed throughout the |
| | of generating logs. (5.1 | applications | network, including their up-to-date- |
| | covered also). | | state, grouped by the host. |

REQUIREMENT 6: Develop and maintain secure systems and applications.

Some individuals use security vulnerabilities to gain privileged access to systems. Many of these vulnerabilities are fixed by vendor-provided security patches, which must be installed by the entities that manage the systems. All critical systems must have the most recently released, appropriate software patches to protect themselves against exploitation and compromise of cardholder data by malicious individuals and malicious software. (Note: Appropriate software patches are those patches that have been evaluated and tested sufficiently to determine that they do not conflict with existing security configurations. For in-house developed applications, numerous vulnerabilities can be avoided by using standard system development processes and secure coding techniques).

| GFI LanGuard | 6.1 Ensure that all system components and software have the latest vendor-supplied security patches installed. Install relevant security patches within one month of release. | PCI DSS requirement 6.1 - missing security updates by host | Missing security updates grouped by host report: This report lists missing patches grouped by the host machine, including URL links providing further information on each missing patch. |
|--------------|---|--|---|
| GFI LanGuard | 6.1 Ensure that all system components and software have the latest vendor-supplied security patches installed. Install relevant security patches within one month of release. | PCI DSS requirement 6.1 - missing security updates by severity | Missing security updates grouped by severity report: This report lists missing patches grouped by severity, including the host machine names for each missing patch. |
| GFI LanGuard | 6.1 Ensure that all system components and software have the latest vendor-supplied security patches installed. Install relevant security patches within one month of release. | PCI DSS requirement 6.1 - installed security updates by host | Installed security updates grouped by host report: This report lists installed patches grouped by host machine, including URL links providing further information on each installed patch. |

| Required ReportPack | Sub-requirement | GFI product report link | What report provides |
|---------------------|---|--|---|
| REQUIREMENT 6: Cor | ntinued | · | |
| GFI LanGuard | 6.1 Ensure that all system components and software have the latest vendor-supplied security patches installed. Install relevant security patches within one month of release. | PCI DSS requirement 6.1 - installed security updates by severity | Installed security updates grouped by severity report : This report lists installed patches grouped by severity, including the host machine names for each installed patch. |
| GFI LanGuard | 6.1 Ensure that all system components and software have the latest vendor-supplied security patches installed. Install relevant security patches within one month of release. | PCI DSS requirement 6.1 - remediation history by date | Remediation history by date report: This report displays remediation information grouped by date and time. |
| GFI LanGuard | 6.2 Establish a process to identify newly discovered security vulnerabilities. | PCI DSS requirement 6.2 - remediation history by date | Remediation history by date report: This report displays remediation information grouped by date and time. |
| GFI LanGuard | 6.2 Establish a process to identify newly discovered security vulnerabilities. | PCI DSS requirement 6.2 - network vulnerability summary | Network vulnerability summary report : This report is an executive summary showing vulnerability counts for different categories. The report also identifies the top most vulnerable host machines and products, as well as the most common vulnerabilities detected on the network. |
| GFI LanGuard | 6.2 Establish a process to identify newly discovered security vulnerabilities. | PCI DSS requirement 6.2 - vulnerability distribution by host | Vulnerability distribution by host report : This report is a statistical summary showing vulnerability counts for each host machine. Statistics are categorized by severity level and vulnerability category. |
| GFI LanGuard | 6.2 Establish a process to identify newly discovered security vulnerabilities. | PCI DSS requirement 6.2 - vulnerability listing by category | Vulnerability listing by category report: This report lists detected vulnerabilities grouped by category, and the host machines affected by each vulnerability. |
| GFI LanGuard | 6.2 Establish a process to identify newly discovered security vulnerabilities. | PCI DSS requirement 6.2 - vulnerability listing by host | Vulnerability listing by host report : This report lists the vulnerabilities detected for each host machine on the network. |
| GFI LanGuard | 6.2 Establish a process to identify newly discovered security vulnerabilities. | PCI DSS requirement 6.2 - vulnerability listing by severity | Vulnerability listing by severity report: This report lists detected vulnerabilities grouped by severity, and the host machines affected by each vulnerability. |

| GFI LanGuard | 6.2 Establish a process to identify newly discovered security vulnerabilities. | PCI DSS requirement 6.2 - open trojan ports by host | Open trojan ports by host report: This report lists open ports, grouped by host machine, which could potentially serve as a backdoor for trojans. |
|--------------|--|--|--|
| GFI LanGuard | 6.2 Establish a process to identify newly discovered security vulnerabilities. | PCI DSS requirement 6.2 - vulnerable hosts by vulnerability level | Vulnerable hosts based on vulnerability level report: This report lists the most vulnerable host machines for each network security scan, based on vulnerability level. |
| GFI LanGuard | 6.2 Establish a process to identify newly discovered security vulnerabilities | PCI DSS requirement 6.2 - vulnerable hosts based on open ports report | Vulnerable hosts based on open ports report : This report lists the most vulnerable host machines, based on the number of open trojan ports found. |
| GFI LanGuard | 6.2 Establish a process to identify newly discovered security vulnerabilities. | PCI DSS requirement 6.2 - network patching status | Network patching status report : This report illustrates the status of patches and service packs for host machines on the network. |
| GFI LanGuard | 6.2 Establish a process to identify newly discovered security vulnerabilities. | PCI DSS requirement 6.2 - missing security updates by host | Missing security updates by host report: This report lists missing patches grouped by host machine, including URL links providing further information on each missing patch. |
| GFI LanGuard | 6.2 Establish a process to identify newly discovered security vulnerabilities. | PCI DSS requirement 6.2 - vulnerability history | Vulnerability history report : This report shows a list of vulnerabilities that were discovered or fixed over the configured period of time. |

| Required ReportPack | Sub-requirement | GFI product | What report provides |
|---------------------|-----------------|-------------|----------------------|
| | | report link | |

REQUIREMENT 7: Restrict access to cardholder data by business 'need to know'.

To ensure critical data can only be accessed by authorized personnel, systems and processes must be in place to limit access based on 'need to know' and according to job responsibilities ('Need to know' is when access rights are granted to only the least amount of data and privileges needed to perform a job).

| granted to only the least amount of data and privileges needed to perform a job). | | | | |
|---|--|--|--|--|
| GFI EventsManager | 7.1 Limit access to computing resources and cardholder information only to those individuals whose job requires such access. | PCI DSS requirement 7.1 - user account management report | User account management report: The report will help you achieve the following goals - find irregular or unusual network account activities, identify administrators who abuse privileges to create or modify accounts and detect patterns of account activities that breach organizational security policies. | |
| GFI EventsManager | 7.1 Limit access to computing resources and cardholder information only to those individuals whose job requires such access. | PCI DSS requirement 7.1 - security group management report | Security group management report: Placement of users into security groups, particularly users who have high privileges such as Domain, Schema, or Enterprise Admins, should occur within policy guidelines only, and they should make use of established and approved accounts or processes. | |
| GFI EventsManager | 7.1 Limit access to computing resources and cardholder information only to those individuals whose job requires such access. | PCI DSS requirement 7.1 - user right assignment policy changes report | User right assignment policy changes report: The report will list any change in the user rights assignment policy, with information on the type of right, who assigned it and to whom. | |
| GFI EventsManager | 7.1 Limit access to computing resources and cardholder information only to those individuals whose job requires such access. | PCI DSS requirement 7.1 - system access granted/removed report | System access granted/removed report: The report will list for each computer the users that have been granted system access. | |
| GFI EventsManager | 7.1 Limit access to computing resources and cardholder information only to those individuals whose job requires such access. | PCI DSS requirement 7.1 - failed attempts to access files and registry report | Failed attempts to access files and registry report: The report will list all the failed attempts to access files and registry based on the object access events. | |
| GFI EventsManager | 7.1 Limit access to computing resources and cardholder information only to those individuals whose job requires such access. | PCI DSS - requirement 7.1 - failed attempts to access files and registry report | Successful attempts to access files and registry report: The report will list all the successful attempts to access files and registry based on the object access events. | |

| Required ReportPack | Sub-requirement | GFI product | What report provides |
|---------------------|-----------------|-------------|----------------------|
| | | report link | |

REQUIREMENT 8: Assign a unique ID to each person with computer access.

Assigning a unique identification (ID) to each person with access ensures that all individuals are uniquely accountable for their actions. When such accountability is in place, actions taken on critical data and systems are performed by, and can be traced to, known and authorized users.

| perioritied by, and carr | be traced to, known and author | 1200 03013. | |
|--------------------------|---|--|---|
| GFI EventsManager | 8.5.1 Control addition, deletion, or modification of user IDs, credentials and other identifier objects. | PCI DSS requirement 8.5.1 - user account management report | User account management report: The report will help you achieve the following goals - find irregular or unusual network account activities, identify administrators who abuse privileges to create or modify accounts and detect patterns of account activities that breach organizational security policies. |
| GFI EventsManager | 8.5.1 Control addition, deletion, or modification of user IDs, credentials and other identifier objects. | PCI DSS requirement 8.5.1 - security group management report | Security group management report: Placement of users into security groups, particularly users who have high privileges such as Domain, Schema, or Enterprise Admins, should occur within policy guidelines only, and they should make use of established and approved accounts or processes. |
| GFI EventsManager | 8.5.1 Control addition, deletion, or modification of user IDs, credentials and other identifier objects. | PCI DSS requirement 8.5.1 - user right assignment policy changes report | User right assignment policy changes report : The report will list any change in the user rights assignment policy, with information on the type of right, who assigned it and to whom. |
| GFI EventsManager | 8.5.1 Control addition, deletion, or modification of user IDs, credentials and other identifier objects. | PCI DSS requirement 8.5.1 - system access granted/ removed report | System access granted/removed report: The report will list for each computer, the users that have been granted system access. |
| GFI EventsManager | 8.5.1 Control addition, deletion, or modification of user IDs, credentials and other identifier objects. | PCI DSS requirement 8.5.1 - password changes report | Password changes report: Password resets should occur within an approved framework only. Properly configured security audit levels should record password resets in the security event logs and identify those resets that do not follow the correct procedures. The report may contain the following sections: "Change password attempts", "User account password set or reset" and "Changes to directory service restore mode passwords". |
| GFI LanGuard | 8.5.5 Remove inactive user accounts at least every 90 days. | PCI DSS requirement 8.5.5 - groups and users report | Groups and users report : Shows a list of all the user accounts on all the network computers. For each user, it displays the last logon date which is used to determine if the user was inactive for more than 90 days. |

| Required ReportPack | Sub-requirement | GFI product report link | What report provides |
|----------------------------|---|--|---|
| REQUIREMENT 8 : Con | ntinued | | |
| GFI LanGuard | 8.5.9 Change user passwords at least every 90 days. | PCI DSS requirement 8.5.9 - groups and users report | Groups and users report: Shows a list of all the user accounts on all the network computers. For each user account, the report shows the age of the corresponding password which is used to determine if there are any accounts with passwords older than a certain period. |
| GFI LanGuard | 8.5.9 Change user passwords at least every 90 days. | PCI DSS requirement 8.5.9 - audit policy report | Audit policy report: This report also lists the password policy for all computers in the network. This information is used to determine if there are any computers where password policies are not set to change passwords every 90 days. |

REQUIREMENT 10: Track and monitor all access to network resources and cardholder data.

Logging mechanisms and the ability to track user activities are critical in preventing, detecting, or minimizing the impact of a data compromise. The presence of logs in all environments allows thorough tracking, alerting, and analysis when something does go wrong. Determining the cause of a compromise is very difficult without system activity logs.

| GFI EventsManager | 10.2 Implement automated audit trails for all system components to reconstruct the following events: 10.2.1 All individual accesses to cardholder data - requires path to the data repository to be audited on the computer holding data. | PCI DSS requirement 10.2.1 - all individual access to cardholder data stored in files report | 10.2.1 All individual access to cardholder data stored in files report: The report displays the data relevant to the corresponding requirement. |
|--------------------|---|--|---|
| GFI EventsManager | 10.2 Implement automated audit trails for all system components to reconstruct the following events: 10.2.2 All actions taken by any individual with root or administrative privileges. | PCI DSS requirement 10.2.2 - all actions taken by any individual with root or administrative privileges report | 10.2.2 All actions taken by any individual with root or administrative privileges report: The report displays the data relevant to the corresponding requirement. |
| GFI Events Manager | 10.2 Implement automated audit trails for all system components to reconstruct the following events: 10.2.3 Access to all audit trails. | PCI DSS requirement 10.2.3 - access to all audit trails report | 10.2.3 Access to all audit trails report : The report displays the data relevant to the corresponding requirement. |
| GFI Events Manager | 10.2 Implement automated audit trails for all system components to reconstruct the following events: 10.2.4 Invalid logical access attempts. | PCI DSS requirement 10.2.4 - invalid logical access attempts report | 10.2.4 Invalid logical access attempts report : The report displays the data relevant to the corresponding requirement. |

| Required ReportPack | Sub-requirement | GFI product report link | What report provides |
|---------------------|--|--|---|
| GFI Events Manager | 10.2 Implement automated audit trails for all system components to reconstruct the following events: 10.2.5 Use of identification and authentication mechanisms. | PCI DSS requirement 10.2.5 - use of identification and authentication mechanisms report | 10.2.5 Use of identification and authentication mechanisms report : The report displays the data relevant to the corresponding requirement. |
| GFI Events Manager | 10.2 Implement automated audit trails for all system components to reconstruct the following events: 10.2.6 Initialization of the audit logs. | PCI DSS requirement 10.2.6 - initialization of the audit logs report | 10.2.6 Initialization of the audit logs report : The report displays the data relevant to the corresponding requirement. |
| GFI EventsManager | 10.2 Implement automated audit trails for all system components to reconstruct the following events: 10.2.7 Creation and deletion of system-level objects. | PCI DSS requirement 10.2.7 - creation and deletion of system level objects report | 10.2.7 Creation and deletion of system level objects report : The report displays the data relevant to the corresponding requirement. |
| GFI EventsManager | 10.4 Synchronize all critical system clocks and times. | PCI DSS requirement 10.4 - time synchronization monitoring report | 10.4 Time synchronization monitoring report : The report will display events generated by the Windows Time service, responsible with time synchronization in Windows environments. Use this report to: a) monitor system time changes and b) monitor the time synchronization process. |
| GFI Events Manager | 10.5.1 Limit viewing of audit trails to those with a jobrelated need. | PCI DSS requirement 10.5.1 – GFI EventsManager activity audit - logons | With the correct GFI EventsManager configuration, this report contains all the logons and logoffs to the GFI EventsManager management console. |
| GFI EventsManager | 10.5.2 Protect audit trail files from unauthorized modifications. | PCI DSS requirement 10.5.2 – GFI EventsManager activity audit | With correct GFI EventsManager configuration, this report contains all the activity that users have performed using the GFI EventsManager management console application. |
| GFI EventsManager | 10.5.5 Use file integrity monitoring and change detection software on logs to ensure that existing log data cannot be changed (except for new data) without generating alerts. | PCI DSS requirement 10.5.5 - failed attempts to access log files report | Failed attempts to access log files report: The report will list all the failed attempts to access files and registry based on the object access events. |
| GFI EventsManager | 10.5.5 Use file integrity monitoring and change detection software on logs to ensure that existing log data cannot be changed (except for new data) without generating alerts. | PCI DSS requirement 10.5.5 - successful attempts to access log files report | Successful attempts to access log files report: The report will list all the successful attempts to access files and registry based on the object access events. |

| Required ReportPack | Sub-requirement | GFI product report link | What report provides |
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| REQUIREMENT 10: Co | ontinued | | |
| GFI EventsManager | 10.6 Review logs for all system components at least once a day. | PCI DSS requirement 10.6 - generic event trend per hour | Generic event trend per hour: The report is used to display statistical information about the trend of collected events. First it shows a section with top 10 computers with the highest number of events, then the top 10 users generating the highest number of events. The events trend chart is divided per hour and the trend of events for each computer is also shown individually. The report can be used to determine time intervals where an unusually high number of events were generated. |
| GFI EventsManager | 10.6 Review logs for all system components at least daily. | PCI DSS Requirement 10.6 Generic Event Trend per Day | Generic Event Trend per Day: The report is used to display statistical information about the trend of the collected events. First it shows a section of top 10 computers with the highest number of events, followed by the top 10 users generating the highest number of events. The events trend chart is divided per day and the trend of events for each computer is shown individually as well. The report can be used to determine time intervals where an unusually high number of events were generated. |

REQUIREMENT 11: Regularly test security systems and processes.

Vulnerabilities are being discovered continually by malicious individuals and researchers, and being introduced by new software. System components, processes, and customer software should be tested frequently to ensure security controls continue to reflect a changing environment.

| GFI EndPointSecurity | 11.1.b Verify that a wireless analyzer is used at least quarterly to identify all wireless devices. | All devices used - grouped by device report | All devices used - grouped by device report: This report shows a list of devices detected by GFI EndPointSecurity agents across the network, together with a list of users that have in some way made use of each device. |
|----------------------|---|---|--|
| GFI EndPointSecurity | 11.1.b Verify that a wireless analyzer is used at least quarterly to identify all wireless devices. | All devices used - grouped by user report | All devices used - grouped by user report: This report shows a list of users monitored by GFI EndPointSecurity agents across the network together with a list of devices that each user has used. |
| GFI EndPointSecurity | 11.1.b Verify that a wireless analyzer is used at least quarterly to identify all wireless devices. | Device access statistics report | Device access statistics report : This report shows the number of allowed and denied access requests made by each user for each device, grouped by file system and non-file system devices. Each row shows Read-Only and Read-Write (full) access requests that were allowed or denied. |

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| Required ReportPack | Sub-requirement | GFI product report link | What report provides |
| REQUIREMENT 11 : Co | ontinued | | |
| GFI EndPointSecurity | 11.1.b Verify that a wireless analyzer is used at least quarterly to identify all wireless devices. | Device usage statistics per user report | Device usage statistics per user report: This report shows a list of external devices connected by each user together with the number of allowed and denied access requests for each device. |
| GFI LanGuard | 11.2 Run internal vulnerability scans at least quarterly and after any significant change in the network (such as new system component installations, changes in network topology, firewall rule modifications, product upgrades). | PCI DSS requirement 11.2 - remediation history by date | Remediation history by date report: This report displays remediation information grouped by date and time. |
| GFI LanGuard | 11.2 Run internal vulnerability scans at least quarterly and after any significant change in the network (such as new system component installations, changes in network topology, firewall rule modifications, product upgrades). | PCI DSS requirement 11.2 -network vulnerability summary | Network vulnerability summary report : This report is an executive summary showing vulnerability counts for different categories. The report also identifies the top most vulnerable host machines and products, as well as the most common vulnerabilities detected on the network. |
| GFI LanGuard | 11.2 Run internal vulnerability scans at least quarterly and after any significant change in the network (such as new system component installations, changes in network topology, firewall rule modifications, product upgrades). | PCI DSS requirement 11.2 - security scans history | Security scans history report: This report lists information and statistics on all network security scans performed. It will provide evidence that scans were performed at adequate intervals, together with information on the outcomes. |
| GFI LanGuard | 11.2 Run internal vulnerability scans at least quarterly and after any significant change in the network (such as new system component installations, changes in network topology, firewall rule modifications, product upgrades). | PCI DSS requirement 11.2 - vulnerability distribution by host report | Vulnerability distribution by host report: This report is a statistical summary showing vulnerability counts for each host machine. Statistics are categorized by severity level and vulnerability category. |
| GFI LanGuard | 11.2 Run internal vulnerability scans at least quarterly and after any significant change in the network (such as new system component installations, changes in network topology, firewall rule modifications, product upgrades). | PCI DSS requirement 11.2 - vulnerability listing by category report | Vulnerability listing by category report: This report lists detected vulnerabilities grouped by category, and the host machines affected by each vulnerability. |

| Required ReportPack | Sub-requirement GFI product What report provides | | | | | | | |
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| nequired neporti dek | Sub requirement | report link | What report provides | | | | | |
| REQUIREMENT 11: Continued | | | | | | | | |
| GFI LanGuard | 11.2 Run internal and external network vulnerability scans at least quarterly. | PCI DSS requirement 11.2 - vulnerability listing by host report | Vulnerability listing by host report: This report lists the vulnerabilities detected for each host machine on the network. | | | | | |
| GFI LanGuard | 11.2 Run internal vulnerability scans at least quarterly and after any significant change in the network (such as new system component installations, changes in network topology, firewall rule modifications, product upgrades). PCI DSS requirement of vulnerability reports a vulnerability requirement of vulnerability reports a vulnerability requirement of vulnera | | Vulnerability listing by severity report: This report list detects vulnerabilities grouped by severity, and the host machines affected by each vulnerability. | | | | | |
| GFI LanGuard | 11.2 Run internal vulnerability scans at least quarterly and after any significant change in the network (such as new system component installations, changes in network topology, firewall rule modifications, product upgrades). PCI DSS requirement 11. open trojan ports by host report report | | Open trojan ports by host report : This report lists open ports, grouped by host machine, which could potentially serve as a backdoor for trojans. | | | | | |
| GFI LanGuard | 11.2 Run internal vulnerability scans at least quarterly and after any significant change in the network (such as new system component installations, changes in network topology, firewall rule modifications, product upgrades). | PCI DSS requirement 11.2 - vulnerable hosts based on vulnerability level report | Vulnerable hosts based on vulnerability level report: This report lists the most vulnerable host machines for each network security scan, based on vulnerability level. | | | | | |
| GFI LanGuard | 11.2 Run internal vulnerability scans at least quarterly and after any significant change in the network (such as new system component installations, changes in network topology, firewall rule modifications, product upgrades). | PCI DSS requirement 11.2 - vulnerable hosts based on open ports report | Vulnerable hosts based on open ports report: This report lists the most vulnerable host machines, based on the number of open trojan ports found. | | | | | |
| GFI LanGuard | 11.2 Run internal vulnerability scans at least quarterly and after any significant change in the network (such as new system component installations, changes in network topology, firewall rule modifications, product upgrades). | PCI DSS requirement 11.2 - network patching status report | Network patching status report : This report illustrates the status of patches and service packs for host machines on the network. | | | | | |

| Required ReportPack | Sub-requirement | GFI product report link | What report provides | | | | | |
|---------------------------|--|---|--|--|--|--|--|--|
| REQUIREMENT 11: Continued | | | | | | | | |
| GFI LanGuard | 11.2 Run internal vulnerability scans at least quarterly and after any significant change in the network (such as new system component installations, changes in network topology, firewall rule modifications, product upgrades). | PCI DSS requirement 11.2 - missing security updates by host report | Missing security updates by host report: This report lists missing patches grouped by host machine, including URL links providing further information on each missing patch. | | | | | |
| GFI LanGuard | 11.2 Run internal vulnerability scans at least quarterly and after any significant change in the network (such as new system component installations, changes in network topology, firewall rule modifications, product upgrades). | PCI DSS requirement 11.2 - remediation history by host This report displays remediation information grouped by host mac including remediation details such date and status. | | | | | | |
| GFI Events Manager | 11.2 Run internal vulnerability scans at least quarterly and after any significant change in the network (such as new system component installations, changes in network topology, firewall rule modifications, product upgrades). | PCI DSS requirement 11.2 - vulnerability history report | Vulnerability history report: This report shows a list of vulnerabilities that were discovered or fixed over the configured period of time. | | | | | |
| GFI EventsManager | 11.4 Use network intrusion detection systems, host-based intrusion detection systems, and intrusion prevention systems to monitor all network traffic and alert personnel to suspected compromises. | PCI DSS requirement 11.4 - account lockouts report | Account lockouts report: This report lists all locked out accounts, including those that can indicate a brute force attack. | | | | | |
| GFI EventsManager | 11.4 Use network intrusion detection systems, host-based intrusion detection systems, and intrusion prevention systems to monitor all network traffic and alert personnel to suspected compromises. | PCI DSS requirement 11.4 - account logons report | Account logons report: This report shows all successful logons grouped by users, allowing you to quickly see which computers a user has logged on to. | | | | | |
| GFI EventsManager | 11.4 Use network intrusion detection systems, host-based intrusion detection systems, and intrusion prevention systems to monitor all network traffic and alert personnel to suspected compromises. | PCI DSS requirement 11.4 - failed logon count on each computer report | Failed logon count on each computer report: This report lists the failed logins on each computer, as well as the type of failure. | | | | | |

| Required ReportPack | Sub-requirement | GFI product report link | What report provides | | | | | |
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| REQUIREMENT 11: Continued | | | | | | | | |
| GFI EventsManager | 11.4 Use network intrusion detection systems, host-based intrusion detection systems, and intrusion prevention systems to monitor all network traffic and alert personnel to suspected compromises. | PCI DSS requirement 11.4 - failed logons report | Failed logons report : This report lists logon failures per computer, and shows the reason behind these failures. | | | | | |
| GFI EventsManager | 11.4 Use network intrusion detection systems, host-based intrusion detection systems, and intrusion prevention systems to monitor all network traffic and alert personnel to suspected compromises. | PCI DSS requirement 11.4 - logoffs report | Logoffs report : This report lists all logoff events including the logon type. | | | | | |
| GFI EventsManager | 11.4 Use network intrusion detection systems, host-based intrusion detection systems, and intrusion prevention systems to monitor all network traffic and alert personnel to suspected compromises. | PCI DSS requirement 11.4 - successful logon count on each computer report | Successful logon count on each computer: This report shows logons by computer and allows you to quickly view the most accessed computers. | | | | | |
| GFI EventsManager | 11.4 Use network intrusion detection systems, host-based intrusion detection systems, and intrusion prevention systems to monitor all network traffic and alert personnel to suspected compromises. | PCI DSS requirement 11.4 - successful logons grouped by computers report | Successful logons grouped by computers report: This report lists all successful logons and shows logon type. | | | | | |
| GFI EventsManager | 11.4 Use network intrusion detection systems, host-based intrusion detection systems, and intrusion prevention systems to monitor all network traffic and alert personnel to suspected compromises. | PCI DSS requirement 11.4 - successful logons grouped by users report | Successful logons grouped by users report: This report displays all successful logons to see all machines a user has logged on to. | | | | | |
| GFI EventsManager | 11.4 Use network intrusion detection systems, host-based intrusion detection systems, and intrusion prevention systems to monitor all network traffic and alert personnel to suspected compromises. | PCI DSS requirement 11.5 - failed attempts to access files and registry report | Failed attempts to access files and registry report: The report will list all the failed attempts to access files and registry based on the object access events. | | | | | |

| Required ReportPack | Sub-requirement GFI product report link | | What report provides | | | |
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| REQUIREMENT 11: Continued | | | | | | |
| GFI EventsManager | 11.4 Use network intrusion detection systems, host-based intrusion detection systems, and intrusion prevention systems to monitor all network traffic and alert personnel to suspected compromises. | PCI DSS requirement 11.5 - successful attempts to access files and registry report | Successful attempts to access files and registry report: The report will list all the successful attempts to access files and registry based on the object access events. | | | |
| GFI EventsManager | 11.4 Use network intrusion detection systems, host-based intrusion detection systems, and intrusion prevention systems to monitor all network traffic and alert personnel to suspected compromises. | PCI DSS requirement 11.4 - objects deleted (all) report | Object deleted with details report : The report will show all deleted files, registry keys, etc. | | | |
| GFI EventsManager | 11.4 Use network intrusion detection systems, host-based intrusion detection systems, and intrusion prevention systems to monitor all network traffic and alert personnel to suspected compromises. | PCI DSS requirement 11.4 - all network activity report grouped by source | PCI DSS requirement 11.4 - all network activity report grouped by source: The report shows the network activity generated by each computer running Windows Vista or newer operating systems (including the server family), based on the events logged by the Windows filtering platform. This report helps you identify computers that are already compromised or about to be compromised by malware/viruses as well as identify specific network activity. | | | |
| GFI EventsManager | 11.4 Use network intrusion detection systems, host-based intrusion detection systems, and intrusion prevention systems to monitor all network traffic and alert personnel to suspected compromises. | PCI DSS requirement 11.4 - important network activity | PCI DSS requirement 11.4 - important network activity : The report shows the network activity generated by each computer running Windows Vista or newer operating systems (<i>including the server family</i>), based on the events logged by the Windows filtering platform. This report helps you identify computers that are already compromised or about to be compromised by malware/viruses as well as identify specific network activity. | | | |
| GFI EventsManager | 11.4 Use network intrusion detection systems, host-based intrusion detection systems, and intrusion prevention systems to monitor all network traffic and alert personnel to suspected compromises. | PCI DSS requirement 11.4 - network activity report grouped by communication port | PCI DSS requirement 11.4 - network activity report grouped by communication port: The report shows the network activity generated by each computer running Windows Vista or newer operating systems (including the server family), based on the events logged by the Windows filtering platform. This report helps you identify computers that are already compromised or about to be compromised by malware/viruses as well as identify specific network activity. | | | |

| Required ReportPack | Sub-requirement | GFI product report link | What report provides | | | | | |
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| REQUIREMENT 11: Continued | | | | | | | | |
| GFI EventsManager | 11.4 Use network intrusion detection systems, host-based intrusion detection systems, and intrusion prevention systems to monitor all network traffic and alert personnel to suspected compromises. PCI DSS requirement 11.4 - network activity report grouped by destination | | PCI DSS requirement 11.4 - network activity report grouped by destination: The report shows the network activity generated by each computer running Windows Vista or newer operating systems (including the server family), based on the events logged by the Windows filtering platform. This report helps you identify computers that are already compromised or about to be compromised by malware/viruses as well as identify specific network activity. | | | | | |
| GFI EventsManager | 11.4 Use network intrusion detection systems, host-based intrusion detection systems, and intrusion prevention systems to monitor all network traffic and alert personnel to suspected compromises. | PCI DSS requirement 11.4 - network activity report grouped by direction | PCI DSS requirement 11.4 - network activity report grouped by direction: The report shows the network activity generated by each computer running Windows Vista or newer operating systems (including the server family), based on the events logged by the Windows filtering platform. This report helps you identify computers that are already compromised or about to be compromised by malware/viruses as well as identify specific network activity. | | | | | |
| GFI EventsManager | 11.5 Deploy file integrity monitoring software to alert personnel to unauthorized modification of critical system or content files. | PCI DSS requirement 11.5 - failed attempts to access files and registry report | Failed attempts to access files and registry report: The report will list all failed attempts to access files and registry based on the object access events. | | | | | |
| GFI EventsManager | 11.5 Deploy file integrity monitoring software to alert personnel to unauthorized modification of critical system or content files. | PCI DSS requirement 11.5 - successful attempts to access files and registry report | Successful attempts to access files and registry report: The report will list all successful attempts to access files and registry based on the object access events. | | | | | |
| GFI EventsManager | 11.5 Deploy file integrity monitoring software to alert personnel to unauthorized modification of critical system or content files. | PCI DSS requirement 15.4 - deleted files | PCI DSS Requirement 15.4 - deleted files: The report lists the deleted files throughout the network. It will help you identify if any critical files are being deleted. | | | | | |

| Required ReportPack | Sub-requirement | GFI product | What report provides |
|---------------------|-----------------|-------------|----------------------|
| | | report link | |

REQUIREMENT 12: Maintain a policy that addresses information security for employees and contractors. A strong security policy sets the security tone for the whole company and informs employees what is expected of them. All employees should be aware of the sensitivity of data and their responsibilities towards protecting it. For the purposes of this requirement, "employees" refers to full-time and part-time employees, temporary employees and personnel, and contractors and consultants who are "resident" on the company's site.

| and personner, and contractors and consultants who are resident on the company's site. | | | | | |
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| GFI LanGuard | 12.1.2 Includes an annual process that identifies threats, and vulnerabilities, and results in a formal risk assessment. | PCI DSS requirement 12.1.2 - network vulnerability summary | Network vulnerability summary report : This report is an executive summary showing vulnerability counts for different categories. The report also identifies the top most vulnerable host machines and products, as well as the most common vulnerabilities detected on the network. | | |
| GFI LanGuard | 12.1.2 Includes an annual process that identifies threats and vulnerabilities, and results in a formal risk assessment. | PCI DSS requirement 12.1.2 - Vulnerability distribution by host | Vulnerability distribution by host report : This report is a statistical summary showing vulnerability counts for each host machine. Statistics are categorized by severity level and vulnerability category. | | |
| GFI LanGuard | 12.1.2 Includes an annual process that identifies threats and vulnerabilities, and results in a formal risk assessment. | PCI DSS requirement 12.1.2 - vulnerability listing by category | Vulnerability listing by category report : This report lists detected vulnerabilities grouped by category, and the host machines affected by each vulnerability. | | |
| GFI LanGuard | 2.1.2 Includes an annual process that identifies threats and vulnerabilities, and results in a formal risk assessment. | PCI DSS requirement 12.1.2 - vulnerability listing by host | Vulnerability listing by host report: This report lists the vulnerabilities detected for each host machine on the network. | | |
| GFI LanGuard | 12.1.2 Includes an annual process that identifies threats and vulnerabilities, and results in a formal risk assessment. | PCI DSS requirement 12.1.2 - vulnerability listing by severity | Vulnerability listing by severity report : This report lists detected vulnerabilities grouped by severity, and the host machines affected by each vulnerability. | | |
| GFI LanGuard | 12.1.2 Includes an annual process that identifies threats and vulnerabilities, and results in a formal risk assessment. | PCI DSS requirement 12.1.2 - open trojan ports by host | Open trojan ports by host report : This report lists open ports, grouped by host machine, which could potentially serve as a backdoor for trojans. | | |
| GFI LanGuard | 12.1.2 Includes an annual process that identifies threats and vulnerabilities, and results in a formal risk assessment. | PCI DSS requirement 12.1.2 - vulnerable hosts based on vulnerability level | Vulnerable hosts based on vulnerability level report: This report lists the most vulnerable host machines for each network security scan, based on vulnerability level. | | |

| Dogwired DepartDack | Sub-requirement GFI product What report provides | | | | | | | |
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| Required ReportPack | Sub-requirement | report link | what report provides | | | | | |
| REQUIREMENT 12: Continued | | | | | | | | |
| GFI LanGuard | 12.1.2 Includes an annual process that identifies threats and vulnerabilities, and results in a formal risk assessment. | PCI DSS requirement 12.1.2 - vulnerable hosts based on open ports | Vulnerable hosts based on open ports report: This report lists the most vulnerable host machines, based on the number of open trojan ports found. | | | | | |
| GFI LanGuard | 12.1.2 Includes an annual process that identifies threats and vulnerabilities, and results in a formal risk assessment. | PCI DSS requirement 12.1.2 - network patching status | Network patching status report : This report illustrates the status of patches and service packs for host machines on the network. | | | | | |
| GFI LanGuard | 12.1.2 Includes an annual process that identifies threats and vulnerabilities, and results in a formal risk assessment. | PCI DSS requirement 12.1.2 - missing security updates grouped by host | Missing security updates grouped by host report: This report lists missing patches grouped by host machine, including URL links providing further information on each missing patch. | | | | | |
| GFI LanGuard | 12.1.2 Includes an annual process that identifies threats and vulnerabilities, and results in a formal risk assessment. | PCI DSS requirement 12.1.2 - remediation history by host | Remediation history by host: This report displays remediation information grouped by host machine, including remediation details such as date and status. | | | | | |
| GFI LanGuard | 12.1.2 Includes an annual process that identifies threats and vulnerabilities, and results in a formal risk assessment. | PCI DSS requirement 12.1.2 - remediation history by date | Remediation history by date report: This report displays remediation information grouped by host machine, including remediation details such as date and status. | | | | | |
| GFI LanGuard | 12.1.2 Includes an annual process that identifies threats and vulnerabilities, and results in a formal risk assessment. | PCI DSS requirement 12.1.2 - baseline changes comparison | Baseline changes comparison report: This report compares results between a chosen computer, used as benchmark, and host machines scanned with the same profile. | | | | | |
| GFI LanGuard | 12.1.2 Includes an annual process that identifies threats and vulnerabilities, and results in a formal risk assessment. | PCI DSS requirement 12.1.2 - network security log by date | Network security log by date report: This report compares results of consecutive scans that have a common profile and target, grouped by the scan date. | | | | | |
| GFI LanGuard | 12.1.2 Includes an annual process that identifies threats and vulnerabilities, and results in a formal risk assessment. | PCI DSS requirement 12.1.2 - network security log by host | Network security log by host report: This report compares results of consecutive scans that have a common profile and target, grouped by the host machine. | | | | | |

| Required ReportPack | Sub-requirement | GFI product report link | What report provides | | | | |
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| REQUIREMENT 12: Continued | | | | | | | |
| GFI EndPointSecurity | 12.3 Develop usage policies for critical employee-facing technologies (such as modems and wireless) to define proper use of these technologies for all employees and contractors. | Device usage summary report | Device usage summary report: The charts in this report display percentages of allowed versus denied access for different devices across all monitored computers on the network. It also lists the top 10 users with allowed or denied access. | | | | |
| GFI EndPointSecurity | 12.3 Develop usage policies for critical employee-facing technologies (such as modems and wireless) to define proper use of these technologies for all employees and contractors. | Device access trends report | Device access trends report : This is a trend report showing the change in device access attempts over time. The graphs plot both the allowed and denied access counts per day. | | | | |
| GFI EndPointSecurity | 12.3 Develop usage policies for critical employee-facing technologies (such as modems and wireless) to define proper use of these technologies for all employees and contractors. | Top active users/computers reports | Top active users/computers reports: These reports show lists of monitored users/machines that have the highest amount of device activity. | | | | |
| GFI EndPointSecurity | 12.3 Develop usage policies for critical employee-facing technologies (such as modems and wireless) to define proper use of these technologies for all employees and contractors. | Users who accessed devices on more than one machine report | Users who accessed devices on more than one machine report: This report displays the users who were accessing devices on more than one machine. | | | | |
| GFI EndPointSecurity | 12.3 Develop usage policies for critical employee-facing technologies (such as modems and wireless) to define proper use of these technologies for all employees and contractors. | Machines which had more than one user accessing devices report | Machines which had more than one user accessing devices report: This report displays the machines which had more than one user accessing the devices. | | | | |
| GFI EndPointSecurity | 12.3 Develop usage policies for critical employee-facing technologies (such as modems and wireless) to define proper use of these technologies for all employees and contractors. | Connected devices outside working hours report | Connected devices outside working hours report : This report shows the devices which were connected outside the working hours. | | | | |
| GFI EndPointSecurity | 12.3 Develop usage policies for critical employee-facing technologies (such as modems and wireless) to define proper use of these technologies for all employees and contractors. | All devices used - grouped by device report | All devices used - grouped by device report: This report shows a list of devices detected by GFI EndPointSecurity agents across the network together with a list of users that have in some way made use of each device. | | | | |
| GFI EndPointSecurity | 12.3 Develop usage policies for critical employee-facing technologies (such as modems and wireless) to define proper use of these technologies for all employees and contractors. | All devices used - grouped by user report | All devices used - grouped by user report: This report shows a list of users monitored by GFI EndPointSecurity agents across the network together with a list of devices that each user has used. | | | | |

| Required ReportPack | Sub-requirement | GFI product report link | What report provides | |
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| REQUIREMENT 12: Co | ontinued | | | |
| GFI EndPointSecurity | 12.3 Develop usage policies for critical employee-facing technologies (such as modems and wireless) to define proper use of these technologies for all employees and contractors. | Device access statistics report | Device access statistics report : This report shows the number of allowed and denied access requests made by each user for each device, grouped by file system and non file system devices. Each row shows Read-Only and Read-Write (<i>full</i>) access requests that were allowed or denied. | |
| GFI EndPointSecurity | 12.3 Develop usage policies for critical employee-facing technologies (such as modems and wireless) to define proper use of these technologies for all employees and contractors. | Device usage statistics per user report | Device usage statistics per user report : This report shows a list of external devices connected by each user together with the number of allowed and denied access requests for each device. | |

Chart D - summary of all PCI DSS requirements

| GFI EventsManager Support Level** | GFI LanGuard Support Level** | GFI EndPointSecurity Support Level** | Milestone* | Comments |
|--------------------------------------|--------------------------------------|---|--|--|
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| | | | 6 | |
| | | | 6 | |
| | | | 1 | |
| | | | 2 | |
| | | | 6 | |
| | | | 2 | Process/policy driven requirement - outside the scope of software solution. |
| | | | 6 | Outside the scope of GFI products. |
| B, D | B, D | | 2 | |
| | | | 2 | Outside the scope of GFI products. |
| | | | 2 | Outside the scope of GFI products. |
| | | | 2 | Outside the scope of GFI products. |
| | Support Level** and maintain a fire | Support Level** Ind maintain a firewall configure Support Level** | Support Level** Support Level** Indiginal and maintain a firewall configuration to protect can be added to the configuration to | Support Level** Support Level** And maintain a firewall configuration to protect cardholder decomposition to protect cardholder decompos |

| | GFI EventsManager Support Level** | GFI LanGuard Support Level** | GFI EndPointSecurity Support Level** | Milestone* | Comments |
|---|--------------------------------------|---------------------------------|---|------------|------------------------------------|
| Requirement 1: Continue | | Support Ecver | Support Ecrei | | |
| 1.3 Prohibit direct public access between the Internet and any system component in the cardholder data environment | B, D | B, D | | 2 | |
| 1.3.1 Implement a DMZ to limit inbound traffic to only system components that provide authorized publicly accessible services, protocols, and ports. | | | | 2 | Outside the scope of GFI products. |
| 1.3.2 Limit inbound Internet traffic to IP addresses within the DMZ. | | | | 2 | Outside the scope of GFI products. |
| 1.3.3 Do not allow any direct routes inbound or outbound for traffic between the Internet and the cardholder data environment. | | | | 2 | Outside the scope of GFI products. |
| 1.3.4 Do not allow internal addresses to pass from the Internet into the DMZ. | | | | 2 | Outside the scope of GFI products. |
| 1.3.5 Do not allow unauthorized outbound traffic from the cardholder data environment to the Internet. | | | | 2 | Outside the scope of GFI products. |
| 1.3.6 Implement stateful inspection, also known as dynamic packet filtering (only "established" connections are allowed into the network). | | | | 2 | Outside the scope of GFI products. |
| 1.3.7 Place the database in an internal network zone, segregated from the DMZ and other untrusted networks. | | | | 2 | Outside the scope of GFI products. |
| 1.3.8 Do not disclose private IP addresses and routing information to unauthorized parties. | | | | 2 | Outside the scope of GFI products. |
| 1.4 Install personal firewall software on any mobile and/ or employee-owned computers with direct connectivity to the Internet (for example, laptops used by employees), which are used to access the organization's network. | | A, B, C, D | | 2 | |

| | GFI EventsManager Support Level** | GFI LanGuard Support Level** | GFI EndPointSecurity Support Level** | Milestone* | Comments |
|--|--------------------------------------|---------------------------------|--------------------------------------|------------|---|
| Requirement 2: Do not u | ıse vendor-supp | | asswords. | | |
| 2.1 Always change vendor- supplied defaults before installing a system on the network, including but not limited to passwords, simple network management protocol (SNMP) community strings, and elimination of unnecessary accounts. | | B,C,D | | 2 | |
| 2.1.1 For wireless environments connected to the cardholder data environment or transmitting cardholder data, change wireless vendor defaults, including but not limited to default wireless encryption keys, passwords, and SNMP community strings. | | | | 2 | Outside the scope of GFI products. |
| 2.2 Develop configuration standards for all system components. Assure that these standards address all known security vulnerabilities and are consistent with industry-accepted system hardening standards. | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| 2.2.1 Implement only one primary function per server to prevent functions that require different security levels from co-existing on the same server. | | | | 3 | Outside the scope of GFI products. |
| 2.2.2 Enable only necessary and secure services, protocols, daemons, etc., as required for the function of the system. | | B, D | | 3 | |
| 2.2.3 Configure system security parameters to prevent misuse. | | B, D | | 3 | |
| 2.2.4 Remove all unnecessary functionality, such as scripts, drivers, features, subsystems, file systems, and unnecessary web servers. | | | | 3 | Outside the scope of GFI products. |
| 2.3 Encrypt all non-console administrative access. Use technologies such as SSH,VPN, or SLL/TLS for web-based management and other non-console administrative access. | | | | 2 | Outside the scope of GFI products. |

| | GFI EventsManager Support Level** | GFI LanGuard Support Level** | GFI EndPointSecurity Support Level** | Milestone* | Comments |
|---|--------------------------------------|---------------------------------|--------------------------------------|------------|---|
| Requirement 2: Continue | | | | | |
| 2.4 Shared hosting providers must protect each entity's hosted environment and cardholder data. These providers must meet specific requirements as detailed in Appendix A: Additional PCI DSS requirements for Shared Hosting Providers. | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| Requirement 3: Protect s | tored cardholde | er data. | | | |
| 3.1 Keep cardholder data storage to a minimum by implementing data retention and disposal policies, procedures and processes, as follows: | | | | 1 | Process/policy driven requirement - outside the scope of software solution. |
| 3.1.1 Implement a data retention and disposal policy | | | | | |
| 3.2 Do not store sensitive authentication data after authorization (even if encrypted). Sensitive authentication data includes the data as cited in requirements 3.2.1 through 3.2.3. | | | | 1 | Outside the scope of GFI products. |
| 3.2.1 Do not store the full contents of any track from the magnetic stripe (located on the back of a card, contained in a chip, or elsewhere). This data is alternatively called full track, track, track 1, track 2, and magnetic-stripe data. | | | | 1 | |
| 3.2.2 Do not store the card- verification code or value (three digit or four-digit number printed on the front or back of a payment card) used to verify card-not-present transactions. | | | | 1 | Process/policy driven requirement - outside the scope of software solution. |
| 3.2.3 Do not store the personal identification number (<i>PIN</i>) or the encrypted PIN block. | | | | 1 | Process/policy driven requirement - outside the scope of software solution. |
| 3.3 Mask PAN when displayed (the first six and last four digits are the maximum number of digits to be displayed). | | B, C, D | | 5 | |
| 3.4 Render PAN unreadable anywhere it is stored (including on portable digital media, backup media, and in logs). | | | contrates | 5 | Outside the scope of GFI products. |

| | GFI EventsManager Support Level** | GFI LanGuard Support Level** | GFI EndPointSecurity Support Level** | Milestone* | Comments |
|--|--------------------------------------|---------------------------------|---|------------|--|
| Requirement 3: Continue | | | , | | |
| 3.4.1 If disk encryption is used (rather than file- or column-level database encryption), logical access must be managed independently of native operating system access control mechanisms (for example, by not using local user account databases). Decryption keys must not be tied to user accounts. | | | | 5 | Process/policy driven requirement – outside the scope of software solution. |
| 3.5 Protect any keys used to secure cardholder data against disclosure and misuse. | | | | 5 | Process/policy driven requirement - outside the scope of software solution. |
| 3.5.1 Restrict access to cryptographic keys to the fewest number of custodians necessary. | | | | 5 | Process/policy driven requirement - outside the scope of software solution. |
| 3.5.2 Store cryptographic keys securely in the fewest possible locations and forms. | | | | 5 | Process/policy driven requirement - outside the scope of software solution. |
| 3.6 Fully document and implement all key management processes and procedures for cryptographic keys used for encryption of cardholder data, including the following: | | | | 5 | Process/policy driven requirement - outside the scope of software solution. |
| 3.6.1 Generation of strong cryptographic keys. | | | | | Process/policy driven requirement - outside the scope of software solution. |
| 3.6.2 Secure cryptographic key distribution. | | | | 5 | Process/policy driven requirement - outside the scope of software solution. |
| 3.6.3 Secure cryptographic key storage. | | | | 5 | Process/policy driven requirement - outside the scope of software solution. |
| 3.6.4 Cryptographic key changes for keys that have reached the end of their cryptoperiod | | | | 5 | Process/policy driven requirement - outside the scope of software solution. |

| | GFI EventsManager Support Level** | GFI LanGuard Support Level** | GFI EndPointSecurity Support Level** | Milestone* | Comments | |
|--|--------------------------------------|---------------------------------|---|-------------|---|--|
| Requirement 3: Continue | | Support Ecver | | | | |
| 3.6.5 Retirement or replacement (for example, archiving, destruction, and/or revocation) of keys as deemed necessary when the integrity of the key has been weakened (for example, departure of an employee with knowledge of a clear-text key), or keys are suspected of being compromised. | | | | 5 | Process/policy driven requirement - outside the scope of software solution. | |
| 3.6.6 If manual clear- text cryptographic key management operations are used, these operations must be managed using split knowledge and dual control | | | | 5 | Process/policy driven requirement - outside the scope of software solution. | |
| 3.6.7 Prevention of unauthorized substitution of cryptographic keys. | | | | 5 | Process/policy driven requirement - outside the scope of software solution. | |
| 3.6.8 Requirement for cryptographic key custodians to sign a form stating that they understand and accept their key-custodian responsibilities. | | | | 5 | Process/policy driven requirement - outside the scope of software solution. | |
| Requirement 4: Encrypt | transmission of | cardholder da | ta across open, pu | blic networ | rks. | |
| 4.1 Use strong cryptography and security protocols such as SSL/TLS or IPSEC to safeguard sensitive cardholder data during transmission over open, public networks. | | | | 2 | Outside the scope of GFI products. | |
| 4.1.1 Ensure wireless networks transmitting cardholder data or connected to the cardholder data environment, use industry best practices (e.g., IEEE 802.11) to implement strong encryption for authentication and transmission. | | | | 2 | Outside the scope of GFI products. | |
| 4.2 Never send unprotected PANs by end-user messaging technologies (for example, e-mail, instant messaging, chat, etc.). | | | | 2 | Outside the scope of GFI products. | |
| Requirement 5: Use and regularly update antivirus software or programs. | | | | | | |
| 5.1 Deploy antivirus software on all systems commonly affected by viruses. | | А | | 2 | | |
| 5.1.1 Ensure that all antivirus programs are capable of detecting, removing, and protecting against all known types of malicious software. | | | | 2 | | |
| 5.2 Ensure that all antivirus mechanisms are current, actively running and capable of generating logs. | B, D | A, C , D | | 2 | | |

| | GFI EventsManager Support Level** | GFI LanGuard Support Level** | GFI EndPointSecurity Support Level** | Milestone* | Comments |
|---|--------------------------------------|---------------------------------|--------------------------------------|------------|---|
| Requirement 6: Develop | | | | | |
| 6.1Ensure that all system components and software are protected from known vulnerabilities by having the latest vendor-supplied security patches installed. Install critical security patches within one month of release. | | A, C , D | | 3 | |
| 6.2 Establish a process to identify newly discovered security vulnerabilities. | | A, C , D | | 3 | |
| 6.3 Develop software applications in accordance with PCI DSS (for example, secure authentication and logging) and based on industry best practices and incorporate information security throughout the software development life cycle. These processes must include the following: | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| 6.3.1 Removal of custom application accounts, user IDs, and passwords before applications become active or are released to customers. | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| 6.3.2 Review of custom code prior to release to production or customers in order to identify any potential coding vulnerability. | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| 6.4 Follow change control processes and procedures for all changes to system components. The processes must include the following: | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| 6.4.1 Separate development/ test and production environments. | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| 6.4.2 Separation of duties between development/ test and production environments. | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| 6.4.3 Production data (<i>live PANs</i>) are not used for testing or development. | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| 6.4.4 Removal of test data and accounts before production systems become active. | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| 6.4.5 Change control procedures for all changes to system components. The procedures must include the following: | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| 6.4.5.1 Document of impact. | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |

| | GFI EventsManager Support Level** | GFI LanGuard Support Level** | GFI EndPointSecurity Support Level** | Milestone* | Comments |
|---|--------------------------------------|---------------------------------|---|------------|---|
| Requirement 6: Continue | ed . | | | | |
| 6.4.5.2 Documented change approval by authorized parties. | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| 6.4.5.3 Functionality testing to verify that the change does not adversely impact the security of the system. | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| 6.4.5.4 Backup-out procedures. | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| 6.5 Develop applications based on secure coding guidelines. Prevent common coding vulnerabilities in software development processes, to include the following: | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |
| 6.5.1 Injection flaws, particularly SQL injection. Also consider OS Command Injection, LDAP and XPath injection flaws as well as other injection flaws. | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| 6.5.2 Buffer overflow. | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| 6.5.3 insecure cryptographic storage. | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| 6.5.4 Insecure communications. | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| 6.5.5 Improper error handling. | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| 6.5.6 All high vulnerabilities identified in the vulnerability identification process (as defined in PCI DSS requirement 6.2). | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| 6.5.7 Cross-site scripting (XSS). | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| 6.5.8 Improper Access Control (such as insecure direct object references, failure to restrict URL access, and directory traversal) | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| 6.5.9 Cross-site request forgery (CSRF) | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |

| | GFI EventsManager Support Level** | GFI LanGuard Support Level** | GFI EndPointSecurity Support Level** | Milestone* | Comments | | |
|---|--------------------------------------|---------------------------------|---|------------|---|--|--|
| Requirement 6: Continued | | | | | | | |
| 6.6 For public-facing web applications, address new threats and vulnerabilities on an ongoing basis and ensure these applications are protected against known attacks by either of the following methods: Reviewing public-facing web applications via manual or automated application vulnerability security assessment tools or methods, at least annually and after any changes. Installing a web-application firewall in front of public-facing web applications. | | | | 3 | Process/policy driven requirement - outside the scope of software solution. | | |
| Requirement 7: Restrict a | access to cardho | lder data by b | ousiness need-to-k | now. | | | |
| 7.1 Limit access to system components and cardholder data to only those individuals whose job requires such access. Access limitations must include the following: | B, D | | | 4 | Process/policy driven requirement - outside the scope of software solution. | | |
| 7.1.1 Restrictions of access rights to privileged user IDs to least privileges necessary to perform job responsibilities. | | | | 4 | Process/policy driven requirement - outside the scope of software solution. | | |
| 7.1.2 Assignment of privileges is based on individual personnel's job classification and function. | | | | 4 | Process/policy driven requirement - outside the scope of software solution. | | |
| 7.1.3 Requirement for a documented approval by authorized parties specifying required privileges. | | | | 4 | Process/policy driven requirement - outside the scope of software solution. | | |
| 7.1.4 Implementation of an automated access control system. | | | | 4 | Outside the scope of GFI products. | | |
| 7.2 Establish an access control system for systems components with multiple users that restricts access based on a user's need to know, and is set to "deny all" unless specifically allowed. This access control system must include the following: | | | | 4 | Outside the scope of GFI products. | | |
| 7.2.1 Coverage of all system components. | | | | 4 | Process/policy driven requirement - outside the scope of software solution. | | |
| 7.2.2 Assignment of privileges to individuals based on job classification and function. | | | | 4 | Process/policy driven requirement - outside the scope of software solution. | | |
| 7.2.3 Default "deny-all" setting. | | | footnotes | 4 | Process/policy driven requirement - outside the scope of software solution. | | |

| | GFI EventsManager Support Level** | GFI LanGuard Support Level** | GFI EndPointSecurity Support Level** | Milestone* | Comments |
|--|--------------------------------------|---------------------------------|--------------------------------------|------------|---|
| Requirement 8: Assign a | | | | | |
| 8.1 Assign all users a unique user name before allowing them to access system components or cardholder data. | | | | 4 | Process/policy driven requirement - outside the scope of software solution. |
| 8.2 In addition to assigning a unique ID, employ at least one of the following methods to authenticate all users: - Password or passphrase - Two-factor authentication (e.g., token devices, smart cards, biometrics, or public keys). | | | | 4 | Outside the scope of GFI products. |
| 8.3 Incorporate two-factor authentication for remote access (network-level access originating from outside the network) to the network by employees, administrators, and third parties. Use technologies such as remote authentication and dial-in service (RADIUS); terminal access controller access control system (TACACS) with tokens; or VPN (based on SSL/TLS or IPSEC) with individual certifications. | | | | 4 | Outside the scope of GFI products. |
| 8.4 Render all passwords unreadable during transmission and storage on all system components using strong cryptography based on approved standards (defined in PCI DSS Glossary, Abbreviations, and Acronyms). | | | | 4 | Outside the scope of GFI products. |
| 8.5 Ensure proper user identification and authentication management for nonconsumer users and administrators on all system components as follows: | | | | 4 | |
| 8.5.1 Control addition, deletion, or modification of user IDs, credentials, and other identifier objects. | D | | | 4 | Outside the scope of GFI products. |
| 8.5.2 Verify users' identification before performing password resets. | | | | 4 | Process/policy driven requirement - outside the scope of software solution. |
| 8.5.3 Set passwords for first-time use and resets to a unique value for each user and change immediately after the first use. | | B,D | | 4 | Outside the scope of GFI products. |
| 8.5.4 Immediately revoke access for any terminated users. | D | B,D | | 4 | Process/policy driven requirement - outside the scope of software solution. |

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| | GFI EventsManager Support Level** | GFI LanGuard Support Level** | GFI EndPointSecurity Support Level** | Milestone* | Comments |
| Requirement 8: Continue | ed | | | | |
| 8.5.5 Remove / disable inactive user accounts at least once every 90 days. | B,D | B,D | | 4 | |
| 8.5.6 Enable accounts used by vendors for remote access only during the time period needed. Monitor vendor remote access accounts when in use. | B,D | B,D | | 4 | |
| 8.5.7 Communicate authentication procedures and policies to all users who have access to cardholder data. | | | | 4 | Process/policy driven requirement - outside the scope of software solution. |
| 8.5.8 Do not use group, shared, or generic accounts and passwords or other authentication methods. | | | | 4 | Process/policy driven requirement - outside the scope of software solution. |
| 8.5.9 Change user passwords at least once every 90 days. | D | B, D | | 4 | |
| 8.5.10 Require a minimum password length of at least seven characters. | | B, D | | 4 | |
| 8.5.11 Use passwords containing both numeric and alphabetic characters. | | | | 4 | Outside the scope of GFI products. |
| 8.5.12 Do not allow an individual to submit a new password that is the same as any of the last four passwords he or she has used. | | | | 4 | Outside the scope of GFI products. |
| 8.5.13 Limit repeated access attempts by locking out the user ID after not more than six attempts. | | | | 4 | |
| 8.5.14 Set the lockout duration to a minimum of 30 minutes or until the administrator enables the user ID. | | | | 4 | Outside the scope of GFI products. |
| 8.5.15 If a session has been idle for more than 15 minutes, require the user to re-enter the password to re-activate the terminal. | | | | 4 | Outside the scope of GFI products. |
| 8.5.16 Authenticate all access to any database containing cardholder data. This includes access by applications, administrators, and all other users. Restrict user direct access or queries to databases to database administrators. | B, D | | | 4 | |

| | GFI EventsManager Support Level** | GFI LanGuard Support Level** | GFI EndPointSecurity Support Level** | Milestone* | Comments |
|--|--------------------------------------|---------------------------------|---|------------|---|
| Requirement 9: Restrict | physical access t | o cardholder | data. | | |
| 9.1 Use appropriate facility entry controls to limit and monitor physical access to systems in the cardholder data environment. | | | | 5 | Outside the scope of GFI products. |
| 9.1.1 Use video cameras or other access control mechanisms to monitor individual physical access to sensitive areas. Review collected data and correlate with other entries. Store for at least three months, unless otherwise restricted by law. | | | | 5 | Process/policy driven requirement - outside the scope of software solution. |
| 9.1.2 Restrict physical access to publicly accessible network jacks. | | | | 5 | |
| 9.1.3 Restrict physical access to wireless access points, gateways, and handheld devices. | | | | 5 | Process/policy driven requirement - outside the scope of software solution. |
| 9.2 Develop procedures to help all personnel easily distinguish between employees and visitors, especially in areas where cardholder data is accessible. | | | | 5 | Process/policy driven requirement - outside the scope of software solution. |
| 9.3 Make sure all visitors are handled as follows: | | | | 5 | Process/policy driven requirement - outside the scope of software solution. |
| 9.3.1 Authorized before entering areas where cardholder data is processed or maintained. Authorized before entering areas where cardholder data is processed or maintained. | | | | 5 | Process/policy driven requirement - outside the scope of software solution. |
| 9.3.2 Given a physical token (for example, a badge or access device) that expires and that identifies the visitors as nonemployees. | | | | 5 | Process/policy driven requirement - outside the scope of software solution. |
| 9.3.3 Asked to surrender the physical token before leaving the facility or at the date of expiration. | | | | 5 | Process/policy driven requirement - outside the scope of software solution. |
| 9.4 Use a visitor log to maintain a physical audit trail or visitor activity. Document the visitor's name, the firm represented, and the employee authorizing physical access on the log. Retain this log for a minimum of three months, unless otherwise restricted by law. | | | | 5 | Process/policy driven requirement - outside the scope of software solution. |

| | GFI EventsManager Support Level** | GFI LanGuard Support Level** | GFI EndPointSecurity Support Level** | Milestone* | Comments |
|--|--------------------------------------|---------------------------------|---|------------|---|
| Requirement 9: Continue | ed . | | | | |
| 9.5 Store media back-ups in a secure location, preferably an off-site facility, such as an alternate or backup site, or a commercial storage facility. Review the location's security at least annually. | | | | 5 | Process/policy driven requirement - outside the scope of software solution. |
| 9.6 Physically secure all media. | | | | 5 | Process/policy driven requirement - outside the scope of software solution. |
| 9.7 Maintain strict control over the internal and external distribution or any kind of media that contains cardholder data, including the following: | | | | 5 | Process/policy driven requirement - outside the scope of software solution. |
| 9.7.1 Classify the media so it can be identified as confidential. | | | | 5 | Process/policy driven requirement - outside the scope of software solution. |
| 9.7.2 Send the media by secured courier or other delivery method that can be accurately tracked. | | | | 5 | Process/policy driven requirement - outside the scope of software solution. |
| 9.8 Ensure management approves any and all media containing cardholder data that is moved from a secured area (especially when the media is distributed to individuals). | | | | 5 | Process/policy driven requirement - outside the scope of software solution. |
| 9.9 Maintain strict control over the storage and accessibility of media. | | | | 5 | Process/policy driven requirement - outside the scope of software solution. |
| 9.9.1 Properly maintain inventory logs of all media and conduct media inventories at least once annually. | | | | 5 | Process/policy driven requirement - outside the scope of software solution. |
| 9.10 Destroy media containing cardholder data when it is no longer needed for business or legal reasons as follows: | | | | 1 | Process/policy driven requirement - outside the scope of software solution. |
| 9.10.1 Shred, incinerate, or pulp hardcopy materials so that cardholder data cannot be reconstructed. | | | | 1 | Process/policy driven requirement - outside the scope of software solution. |
| 9.10.2 Render cardholder data on electronic media unrecoverable so that cardholder data cannot be reconstructed. | | | | 1 | Process/policy driven requirement - outside the scope of software solution. |

| | GFI EventsManager Support Level** | GFI LanGuard Support Level** | GFI EndPointSecurity Support Level** | Milestone* | Comments |
|---|--------------------------------------|---------------------------------|--------------------------------------|------------|------------------------------------|
| Requirement 10: Track a | | | | cardholder | data. |
| 10.1 Establish a process for linking all access to system components (especially access done with administrative privileges such as root) to each individual user. | A, B, C, D | | | 4 | |
| 10.2 Implement automated audit trails for all system components to reconstruct the following events: | A, B, C, D | | | 4 | |
| 10.2.1 All individual accesses to cardholder data. | A, B, C, D | | | 4 | |
| 10.2.2 All actions taken by any individual with root or administrative privileges. | A, B, C, D | | | 4 | |
| 10.2.3 Access to all audit trails. | A, B, C, D | | | 4 | |
| 10.2.4 Invalid logical access attempts. | A, B, C, D | | | 4 | |
| 10.2.5 Use of identification and authentication mechanisms. | A, B, C, D | | | 4 | |
| 10.2.6 Initialization of the audit logs. | A, B, C, D | | | 4 | |
| 10.2.7 Creation and deletion of system- level objects. | A, B, C, D | | | 4 | |
| 10.3 Record at least the following audit trail entries for all system components for each event. | A, B, C, D | | | 4 | |
| 10.3.1 User identification. | A, B, C, D | | | 4 | |
| 10.3.2 Type of event. | A, B, C, D | | | 4 | |
| 10.4 Using time- synchronization technology, synchronize all critical system clocks and times and ensure that the following is implemented for acquiring, distributing, and storing time. | B, D | | | 4 | |
| 10.4.1 Critical systems have the correct and consistent time. | B, D | | | 4 | |
| 10.4.2 Time data is protected. | B, D | | | 4 | |
| 10.4.3 Time settings are received from industry-accpted time sources. | B, D | | | 4 | |
| 10.5 Secure audit trails so they cannot be altered. | B, D | | | 6 | Outside the scope of GFI products. |
| 10.5.1 Limit viewing of audit trails to those with a jobrelated need. | A, B, C, D | | | 6 | |
| 10.5.2 Protect audit trail files from unauthorized modifications. | A, B, C, D | | | 6 | |

Chart D - summary of all PCI DSS requirements continued

| | GFI EventsManager Support Level** | GFI LanGuard Support Level** | GFI EndPointSecurity Support Level** | Milestone* | Comments |
|--|--------------------------------------|---------------------------------|---|------------|--|
| Requirement 10: Continu | | Supporticion | - Support Ecvel | | |
| 10.5.3 Promptly back up audit trail files to a centralized log server or media that is difficult to alter. | | | | 6 | Outside the scope of GFI products. |
| 10.5.4 Write logs for external- facing technologies onto a log server on the internal LAN. | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |
| 10.5.5 Use file integrity monitoring and change detection software on logs to ensure that existing log data cannot be changed (except for new data) without generating alerts. | A, B, C, D | | | 6 | |
| 10.6 Review logs for all systemcomponents at least daily. Log reviews must include those servers that perform security functions like intrusion-detection system (IDS) and authentication, authorization, and accounting protocol (AAA) servers (for example, RADIUS). | A, B, C, D | | | 4 | |
| 10.7 Retain audit trail history for at least one year, with a minimum of three months immediately available for analysis (for example, online, archived, or restorable from backup). | | | | 4 | Process/policy driven requirement – outside the scope of software solution. |
| Requirement 11: Regula | rly test security s | systems and p | rocesses. | | |
| 11.1 Test for the presence of wireless access points and detect unauthorized wireless access points on a quarterly basis. | B, D | | A, B, C, D | 6 | |
| 11.2 Run internal and external network vulnerability scans at least quarterly and after any significant change in the network (such as new system component installations, changes in network topology, firewall rule modifications, product upgrades). | | A, B, C, D | | 2 | |
| 11.2.1 Perform quarterly internal vulnerability scans. | | A, B, C, D | | 2 | |
| 11.2.2 Perform quarterly external vulnerability scans via an Approved Scanning Vendor. | | | | | |
| 11.2.3 Performal internal and external scans after any significant change. | | A, B, C, D | | 2 | |

| | GFI EventsManager | GFI LanGuard | GFI EndPointSecurity | Milestone* | Comments |
|--|--------------------|-----------------|----------------------|------------|---|
| | Support Level** | Support Level** | Support Level** | mestone | Comments |
| Requirement 11: Continu | ued | | | | |
| 11.3 Perform external and internal penetration testing at least once a year and after any significant infrastructure or application upgrade or modification (such as an operating system upgrade, a sub-network added to the environment, or a web server added to the environment). These penetration tests must include the following: | | | | 6 | Outside the scope of GFI products. |
| 11.3.1 Network-layer penetration tests. | | | | 6 | Outside the scope of GFI products. |
| 11.3.2 Application-layer penetration tests. | | | | 6 | Outside the scope of GFI products. |
| 11.4 Use network intrusion detection systems, host-based intrusion detection systems, and intrusion prevention systems to monitor all network traffic and alert personnel to suspected compromises. | A, B, C, D | | | 2 | |
| 11.5 Deploy file integrity monitoring tools to alert personnel to unauthorized modification of critical system files, configuration files, or content files; and configure the software to perform critical file comparisons at least weekly. | A, B, C, D | | | 4 | |
| Requirement 12: Mainta | in a policy that a | ddresses info | rmation security fo | r employee | s and contractors. |
| 12.1 Establish, publish, maintain, and disseminate a security policy that accomplishes the following: | | | | 6 | |
| 12.1.1 Addresses all PCI DSS requirements. | | | | 1 | Process/policy driven requirement - outside the scope of software solution. |
| 12.1.2 Includes an annual process that identifies threats and vulnerabilities, and results in a formal risk assessment. | | A, B, C, D | | 6 | |
| 12.1.3 Includes a review at least once a year and updates when the environment changes. | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |
| 12.2 Develop daily operational security procedures that are consistent with requirements in this specification (for example, user account maintenance procedures, and log review procedures). | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |

| | GFI EventsManager Support Level** | GFI LanGuard Support Level** | GFI EndPointSecurity Support Level** | Milestone* | Comments |
|--|--------------------------------------|---------------------------------|---|------------|---|
| Requirement 12: Continu | ried | | | | |
| 12.3 Develop usage policies for critical employee-facing technologies (such as modems and wireless) to define proper use of these technologies for all employees and contractors. Ensure these usage policies require the | acu . | | A, B, C, D | 6 | |
| following: 12.3.1 Explicit management approval. | | | A, B, C, D | 6 | |
| 12.3.2 Authentication for use of the technology. | | | A, B, C, D | 6 | |
| 12.3.3 A list of all such devices and personnel with access. | | | A, B, C, D | 6 | |
| 12.3.4 Labeling of devices to determine owner, contact information and purpose. | | | | 6 | |
| 12.3.5 Acceptable uses of the technology. | | | A, B, C, D | 6 | |
| 12.3.6 Acceptable network locations for the technologies. | | | A, B, C, D | 6 | |
| 12.3.7 List of company- approved products. | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |
| 12.3.8 Automatic disconnection of sessions for remote access technologies after a specific period of inactivity. | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |
| 12.3.9 Activation of remote access technologies for vendors only when needed by vendors, with immediate deactivation after use. | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |
| 12.3.10 For personnel accessing cardholder data via remote-access technologies, prohibit copy, move, and storage of cardholder data onto local hard drives and removable electronic media, unless explicitly authorized for a defined business need. | | | A, B, C, D | 6 | |
| 12.4 Ensure that the security policy and procedures clearly define information security responsibilities for all employees and contractors. | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |
| 12.5 Assign to an individual or team the following information security management responsibilities: | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |

| | GFI EventsManager Support Level** | GFI LanGuard Support Level** | GFI EndPointSecurity Support Level** | Milestone* | Comments |
|--|--------------------------------------|---------------------------------|--------------------------------------|------------|---|
| Requirement 12: Continu | ıed | | | | |
| 12.5.1 Establish, document, and distribute security policies and procedures. | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |
| 12.5.2 Monitor and analyze security alerts and information, and distribute to appropriate personnel. | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |
| 12.5.3 Establish, document, and distribute security incident response and escalation procedures to ensure timely and effective handling of all situations. | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |
| 12.5.4 Administer user accounts, including additions, deletions, and modifications. | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |
| 12.5.5 Monitor and control all access to data. | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |
| 12.6 Implement a formal security awareness program to make all employees aware of the importance of cardholder data security. | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |
| 12.6.1 Educate personnel upon hire at least once annually. | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |
| 12.6.2 Require personnel to acknowledge at least once annually that they have read and understood the company's security policy and procedures. | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |
| 12.7 Screen potential employees prior to hire to minimize the risk of attacks from internal sources. | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |
| 12.8 If cardholder data is shared with service providers, maintain and implement policies and procedures to manage service providers, to include the following: | | | | 2 | Process/policy driven requirement - outside the scope of software solution. |
| 12.8.1 Maintain a list of service providers. | | | | 2 | Process/policy driven requirement - outside the scope of software solution. |
| 12.8.2 Maintain a written agreement that includes an acknowledgement that the service providers are responsible for the security of cardholder data the service providers possess. | | | | 2 | Process/policy driven requirement - outside the scope of software solution. |

Chart D - summary of all PCI DSS requirements continued

| | GFI EventsManager Support Level** | GFI LanGuard Support Level** | GFI EndPointSecurity Support Level** | Milestone* | Comments |
|--|--------------------------------------|---------------------------------|--------------------------------------|------------|---|
| Requirement 12: Continu | | | | | |
| 12.8.3 Ensure there is an established process for engaging service providers including proper diligence prior to engagement. | | | | 2 | Process/policy driven requirement - outside the scope of software solution. |
| 12.8.4 Maintain a program to monitor service providers' PCI DSS compliance status. | | | | 2 | Process/policy driven requirement - outside the scope of software solution. |
| 12.9 Implement an incident response plan. Be prepared to respond immediately to a system breach. | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |
| 12.9.1 Create the incident response plan to be implemented in the event of system breach. Ensure the plan addresses the following, at a minimum: | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |
| 12.9.2 Test the plan at least annually. | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |
| 12.9.3 Designate specific personnel to be available on a 24/7 basis to respond to alerts. | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |
| 12.9.4 Provide appropriate training to staff with security breach response responsibilities. | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |
| 12.9.5 Include alerts from intrusion detection, intrusion prevention, and file integrity monitoring systems. | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |
| 12.9.6 Develop a process to modify and evolve the incident response plan according to lessons learned and to incorporate industry developments. | | | | 6 | Process/policy driven requirement - outside the scope of software solution. |
| Requirement A.1: Shared | d hosting provid | ers must prot | ect the cardholder | data envir | onment. |
| A.1 Protect each entity's (merchant, service provider or others) hosted environment and data, as per A.1.1 through A.1.4: | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| A.1.1 Ensure that each entity only runs processes that have access to that entity's cardholder data environment. | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| A.1.2 Restrict each entity's access and privileges to own cardholder data environment only. | | А, С | | 3 | |

| | GFI EventsManager Support Level** | GFI LanGuard Support Level** | GFI EndPointSecurity Support Level** | Milestone* | Comments |
|---|--------------------------------------|---------------------------------|--------------------------------------|------------|---|
| Requirement A.1: Contin | nued | | | | |
| A.1.3 Ensure logging and audit trails are enabled and unique to each entity's cardholder data environment and consistent with PCI DSS requirement 10. | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |
| A.1.4 Enable processes to provide for timely forensic investigation in the event of a compromise to any hosted merchant or service provider. | | | | 3 | Process/policy driven requirement - outside the scope of software solution. |

FOOTNOTES:

^{*} Milestone - suggested order of implementation efforts to meet PCI-DSS requirements. The order is not mandatory, but is based on the PCI Security Standards Council recommendations - please see the Official PCI Security Standards Council site for more information at: https://www.pcisecuritystandards.org/index.php

A: The product offers functionality directly requested by particular PCI DSS requirements in order to achieve compliance.

B: The product offers functionality that can aid enforcement or enforce particular PCI DSS requirements once they are in place, via monitoring, alerting and/or reporting; particularly useful for periodic reviews and assessments.

C: The product offers functionality to report on compliance status of hosts related to a particular PCI DSS requirement.

D: The product is able to report on the data gathered as part of processes at support levels A and B for a particular PCI DSS requirement.

Chart E – PCI DSS requirements support in GFI products

| , | • | | | | | |
|---|--------------------------------------|---------------------------------|---|--|--|--|
| | GFI EventsManager Support Level** | GFI LanGuard Support Level** | GFI EndPointSecurity Support Level** | | | |
| Requirement 1: Install and maintain a firewall configuration to protect cardholder data. | | | | | | |
| 1.2 Build a firewall configuration that denies all traffic from "untrusted" networks and hosts, except for protocols necessary for the cardholder data environment. | B, D | B, D | | | | |
| 1.3 Build a firewall configuration that restricts connections between publicly accessible servers and any system component storing cardholder data, including any connections from wireless networks. This firewall configuration should include: | B, D | B, D | | | | |
| 1.3.9 Installing personal firewall software on any mobile and employee-owned computers with direct connectivity to the Internet. | - | A, B, C, D | - | | | |
| 1.4 Install personal firewall software on any mobile and/or employee- owned computers with direct connectivity to the Internet (for example, laptops used by employees), which are used to access the organization's network. | | | | | | |
| Requirement 2: Do not use vendor-supplied default p | asswords. | | | | | |
| 2.1 Always change vendor-supplied defaults before installing a system on the network. | - | B, C, D | - | | | |
| 2.2.2 Disable all unnecessary and insecure services and protocols (services and protocols not directly needed to perform the devices' specified function). | - | B, D | - | | | |
| 2.2.3 Configure system security parameters to prevent misuse. | - | B, D | - | | | |
| Requirement 3: Protect stored cardholder data. | | | | | | |
| 3.4 Render PAN, at minimum, unreadable anywhere it is stored. | - | B, C, D | | | | |
| Requirement 5: Use and regularly update antivirus software or programs. | | | | | | |
| 5.1 Deploy antivirus software on all systems commonly affected by viruses. | - | А | - | | | |
| 5.2 Ensure that all antivirus mechanisms are current, actively running and capable of generating logs. | B, D | A, C, D | - | | | |
| Requirement 6: Develop and maintain secure systems and applications. | | | | | | |
| 6.1 Ensure that all system components and software have the latest vendor-supplied security patches installed. Install relevant security patches within one month of release. | - | A, C, D | - | | | |
| 6.2 Establish a process to identify newly discovered security vulnerabilities. | - | A, C, D | - | | | |
| Requirement 7: Restrict access to cardholder data by k | ousiness need- | to-know. | | | | |
| 7.1 Limit access to computing resources and cardholder information only to those individuals whose job requires such access. | B, D | - | - | | | |
| Requirement 8: Assign a unique ID to each person with | th computer a | ccess. | | | | |
| 8.5.1 Control addition, deletion, or modification of user IDs, credentials, and other identifier objects. | D | - | - | | | |
| 8.5.3 Set first-time passwords to a unique value for each user and change immediately after first use. | - | B, D | - | | | |
| 8.5.4 Immediately revoke access for any terminated users. | D | B, D | - | | | |
| 8.5.5 Remove inactive user accounts at least once every 90 days. | B, D | B, D | - | | | |

Chart E – PCI DSS requirements support in GFI products continued

| | GFI EventsManager Support Level** | GFI LLanGuard Support Level** | GFI EndPointSecurity Support Level** | | |
|---|--------------------------------------|----------------------------------|---|--|--|
| Requirement 8: Continued | | | | | |
| 8.5.6 Enable accounts used by vendors for remote maintenance only during the time period needed. | B, D | B, D | - | | |
| 8.5.9 Change user passwords at least once every 90 days. | - | B, D | - | | |
| 8.5.10 Require a minimum password length of at least seven characters. | - | B, D | - | | |
| 8.5.13 Limit repeated access attempts by locking out the user ID after not more than six attempts. | - | - | - | | |
| 8.5.16 Authenticate all access to any database containing cardholder data. | B, D | - | - | | |
| Requirement 10: Track and monitor all access to netwo | ork resources a | and cardhold | er data. | | |
| 10.1 Log all individual user access to system components, especially administrative users. | A, B, C, D | - | - | | |
| 10.2 Implement automated audit trails for all system components to reconstruct the following events: | A, B, C, D | - | - | | |
| 10.2.1 All individual accesses to cardholder data. | A, B, C, D | - | - | | |
| 10.2.2 All actions taken by any individual with root or administrative privileges. | A, B, C, D | - | - | | |
| 10.2.3 Access to all audit trails. | A, B, C, D | - | - | | |
| 10.2.4 Invalid logical access attempts. | A, B, C, D | - | - | | |
| 10.2.5 Use of identification and authentication mechanisms. | A, B, C, D | - | - | | |
| 10.2.6 Initialization of the audit logs. | A, B, C, D | - | - | | |
| 10.2.7 Creation and deletion of system-level objects. | A, B, C, D | - | - | | |
| 10.3 Record at least the following audit trail entries for all system components for each event. | A, B, C, D | - | - | | |
| 10.4 Synchronize all critical system clocks and times. | B, D | - | - | | |
| 10.5.1 Limit viewing of audit trails to those with a job-related need. | A, B, C, D | - | - | | |
| 10.5.2 Protect audit trail files from unauthorized modifications. | A, B, C, D | - | - | | |
| 10.5.5 Use file integrity monitoring and change detection software on logs to ensure that existing log data cannot be changed (<i>except for new data</i>) without generating alerts. | A, B, C, D | - | - | | |
| 10.6 Review logs for all system components at least daily. | A, B, C, D | - | - | | |
| Requirement 11: Regularly test security systems and processes. | | | | | |
| 11.1 Test security controls, limitations, network connections, and restrictions annually to assure the ability to adequately identify and to stop any unauthorized access attempts. | B, D | - | A, B, C, D | | |
| 11.2 Run internal and external network vulnerability scans at least quarterly. | - | A, B, C, D | - | | |
| 11.4 Use network intrusion detection systems, host-based intrusion detection systems, and intrusion prevention systems to monitor all network traffic and alert personnel to suspected compromises. | A, B, C, D | - | - | | |
| 11.5 Deploy file integrity monitoring software to alert personnel to unauthorized modification of critical system or content files. | A, B, C, D | - | - | | |

Chart E – PCI DSS requirements support in GFI products continued

| | GFI EventsManager Support Level** | GFI LanGuard Support Level** | GFI EndPointSecurity Support Level** | | |
|---|--------------------------------------|---------------------------------|---|--|--|
| Requirement 12: Maintain a policy that addresses information security for employees and contractors. | | | | | |
| 12.1.2 Includes an annual process that identifies threats and vulnerabilities, and results in a formal risk assessment. | - | A, B, C, D | - | | |
| 12.3 Develop usage policies for critical employee-facing technologies (<i>such as modems and wireless</i>) to define proper use of these technologies for all employees and contractors. Ensure these usage policies require the following: | - | - | A, B, C, D | | |
| 12.3.1 Explicit management approval. | - | - | A, B, C, D | | |
| 12.3.2 Authentication for use of the technology. | - | - | A, B, C, D | | |
| 12.3.3 A list of all such devices and personnel with access. | · | = | A, B, C, D | | |
| 12.3.5 Acceptable uses of the technology. | - | - | A, B, C, D | | |
| 12.3.6 Acceptable network locations for the technologies. | - | - | A, B, C, D | | |
| 12.3.10 When accessing cardholder data remotely via modem, prohibition of storage of cardholder data onto local hard drives, floppy disks, or other external media. Prohibition of cut-and-paste and print functions during remote access. | - | - | A, B, C, D | | |

^{**}FOOTNOTES:

D: The product is able to report on the data gathered as part of processes at support levels A and B for a particular PCI DSS requirement.

About GFI

GFI Software provides web and mail security, archiving and fax, networking and security software and hosted IT solutions for small to medium-sized businesses (SMB) via an extensive global partner community. GFI products are available either as on-premise solutions, in the cloud or as a hybrid of both delivery models. With award-winning technology, a competitive pricing strategy, and a strong focus on the unique requirements of SMBs, GFI satisfies the IT needs of organizations on a global scale. The company has offices in the United States, UK, Austria, Australia, Malta, Hong Kong, Philippines and Romania, which together support hundreds of thousands of installations worldwide. GFI is a channel-focused company with thousands of partners throughout the world and is also a Microsoft Gold ISV Partner.

More information about GFI can be found at http://www.gfi.com.

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