

Payment Card Industry (PCI)   
Data Security Standard  
Self-Assessment Questionnaire A-EP  
and Attestation of Compliance

Partially Outsourced E-commerce Merchants Using a Third-Party Website for Payment Processing

**For use with PCI DSS Version 3.2.1**

June 2018

Document Changes

| **Date** | **PCI DSS Version** | **SAQ Revision** | **Description** |
| --- | --- | --- | --- |
| N/A | 1.0 |  | Not used. |
| N/A | 2.0 |  | Not used. |
| February 2014 | 3.0 |  | New SAQ to address requirements applicable to e-commerce merchants with a website(s) that does not itself receive cardholder data but which does affect the security of the payment transaction and/or the integrity of the page that accepts the consumer’s cardholder data.  Content aligns with PCI DSS v3.0 requirements and testing procedures. |
| April 2015 | 3.1 |  | Updated to align with PCI DSS v3.1. For details of PCI DSS changes, see *PCI DSS – Summary of Changes from PCI DSS Version 3.0 to 3.1*. |
| June 2015 | 3.1 |  | Update Requirement 11.3 to fix error. |
| July 2015 | 3.1 | 1.1 | Updated to remove references to “best practices” prior to June 30, 2015, and remove the PCI DSS v2 reporting option for Requirement 11.3 |
| April 2016 | 3.2 | 1.0 | Updated to align with PCI DSS v3.2. For details of PCI DSS changes, see *PCI DSS – Summary of Changes from PCI DSS Version 3.1 to 3.2.*  Requirements added from PCI DSS v3.2 Requirements 1, 5, 6, 7, 8, 10, 11, and Appendix A2. |
| January 2017 | 3.2 | 1.1 | Updated Document Changes to clarify requirements added in the April 2016 update. |
| June 2018 | | 3.2.1 | 1.0 | Updated to align with PCI DSS v3.2.1. For details of PCI DSS changes, see *PCI DSS – Summary of Changes from PCI DSS Version 3.2 to 3.2.1.* |

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Before You Begin

SAQ A-EP has been developed to address requirements applicable to e-commerce merchants with a website(s) that does not itself receive cardholder data but which does affect the security of the payment transaction and/or the integrity of the page that accepts the consumer’s cardholder data.

SAQ A-EP merchants are e-commerce merchants who partially outsource their e-commerce payment channel to PCI DSS validated third parties and do not electronically store, process, or transmit any cardholder data on their systems or premises.

SAQ A-EP merchants confirm that, for this payment channel:

* Your company accepts only e-commerce transactions;
* All processing of cardholder data, with the exception of the payment page, is entirely outsourced to a PCI DSS validated third-party payment processor;
* Your e-commerce website does not receive cardholder data but controls how consumers, or their cardholder data, are redirected to a PCI DSS validated third-party payment processor;
* If merchant website is hosted by a third-party provider, the provider is validated to all applicable PCI DSS requirements (e.g., including PCI DSS Appendix A if the provider is a shared hosting provider);
* Each element of the payment page(s) delivered to the consumer’s browser originates from either the merchant’s website or a PCI DSS compliant service provider(s);
* Your company does not electronically store, process, or transmit any cardholder data on your systems or premises, but relies entirely on a third party(s) to handle all these functions;
* Your company has confirmed that all third party(s) handling storage, processing, and/or transmission of cardholder data are PCI DSS compliant; and
* Any cardholder data your company retains is on paper (for example, printed reports or receipts), and these documents are not received electronically.

***This SAQ is applicable only to e-commerce channels.***

This shortened version of the SAQ includes questions that apply to a specific type of small merchant environment, as defined in the above eligibility criteria. If there are PCI DSS requirements applicable to your environment that are not covered in this SAQ, it may be an indication that this SAQ is not suitable for your environment. Additionally, you must still comply with all applicable PCI DSS requirements in order to be PCI DSS compliant.

***Note:*** *For the purposes of this SAQ, PCI DSS requirements that refer to the “cardholder data environment” are applicable to the merchant website(s). This is because the merchant website directly impacts how the payment card data is transmitted, even though the website itself does not receive cardholder data.*

## PCI DSS Self-Assessment Completion Steps

1. Identify the applicable SAQ for your environment⎯refer to the *Self-Assessment Questionnaire Instructions and Guidelines* document on PCI SSC website for information.
2. Confirm that your environment is properly scoped and meets the eligibility criteria for the SAQ you are using (as defined in Part 2g of the Attestation of Compliance).
3. Assess your environment for compliance with applicable PCI DSS requirements.
4. Complete all sections of this document:

* Section 1 (Parts 1 & 2 of the AOC) – Assessment Information and Executive Summary.
* Section 2 – PCI DSS Self-Assessment Questionnaire (SAQ A-EP)
* Section 3 (Parts 3 & 4 of the AOC) – Validation and Attestation Details and Action Plan for Non-Compliant Requirements (if applicable)

1. Submit the SAQ and Attestation of Compliance (AOC), along with any other requested documentation—such as ASV scan reports—to your acquirer, payment brand or other requester.

## Understanding the Self-Assessment Questionnaire

The questions contained in the “PCI DSS Question”column in this self-assessment questionnaire are based on the requirements in the PCI DSS.

Additional resources that provide guidance on PCI DSS requirements and how to complete the self-assessment questionnaire have been provided to assist with the assessment process. An overview of some of these resources is provided below:

|  |  |
| --- | --- |
| **Document** | **Includes:** |
| PCI DSS  *(PCI Data Security Standard Requirements and Security Assessment Procedures)* | * Guidance on Scoping * Guidance on the intent of all PCI DSS Requirements * Details of testing procedures * Guidance on Compensating Controls |
| SAQ Instructions and Guidelines documents | * Information about all SAQs and their eligibility criteria * How to determine which SAQ is right for your organization |
| *PCI DSS and PA-DSS Glossary of Terms, Abbreviations, and Acronyms* | * Descriptions and definitions of terms used in the PCI DSS and self-assessment questionnaires |

These and other resources can be found on the PCI SSC website *(*[*www.pcisecuritystandards.org*](http://www.pcisecuritystandards.org)*)*. Organizations are encouraged to review the PCI DSS and other supporting documents before beginning an assessment.

### Expected Testing

The instructions provided in the “Expected Testing” column are based on the testing procedures in the PCI DSS, and provide a high-level description of the types of testing activities that should be performed in order to verify that a requirement has been met. Full details of testing procedures for each requirement can be found in the PCI DSS.

## Completing the Self-Assessment Questionnaire

For each question, there is a choice of responses to indicate your company’s status regarding that requirement. ***Only one response should be selected for each question.***

A description of the meaning for each response is provided in the table below:

| Response | When to use this response: |
| --- | --- |
| **Yes** | The expected testing has been performed, and all elements of the requirement have been met as stated. |
| **Yes with CCW**  (Compensating Control Worksheet) | The expected testing has been performed, and the requirement has been met with the assistance of a compensating control.  All responses in this column require completion of a Compensating Control Worksheet (CCW) in Appendix B of the SAQ.  Information on the use of compensating controls and guidance on how to complete the worksheet is provided in the PCI DSS. |
| **No** | Some or all elements of the requirement have not been met, or are in the process of being implemented, or require further testing before it will be known if they are in place. |
| **N/A**  (Not Applicable) | The requirement does not apply to the organization’s environment. (See *Guidance for Non-Applicability of Certain, Specific Requirements* below for examples.)  All responses in this column require a supporting explanation in Appendix C of the SAQ. |

## Guidance for Non-Applicability of Certain, Specific Requirements

If any requirements are deemed not applicable to your environment, select the “N/A” option for that specific requirement, and complete the “Explanation of Non-Applicability” worksheet in Appendix C for each “N/A” entry.

## Legal Exception

If your organization is subject to a legal restriction that prevents the organization from meeting a PCI DSS requirement, check the “No” column for that requirement and complete the relevant attestation in Part 3.

Section 1: Assessment Information

***Instructions for Submission***

This document must be completed as a declaration of the results of the merchant’s self-assessment with the *Payment Card Industry Data Security Standard Requirements and Security Assessment Procedures (PCI DSS).* Complete all sections: The merchant is responsible for ensuring that each section is completed by the relevant parties, as applicable. Contact your acquirer (merchant bank) or the payment brands to determine reporting and submission procedures.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Part 1. Merchant and Qualified Security Assessor Information** | | | | | | | | |
| **Part 1a. Merchant Organization Information** | | | | | | | | |
| Company Name: |  | | DBA (doing business as): |  | | | | |
| Contact Name: |  | | Title: |  | | | | |
| Telephone: |  | | E-mail: |  | | | | |
| Business Address: |  | | City: |  | | | | |
| State/Province: |  | Country: |  | | | Zip: | |  |
| URL: |  | | | | | | | |
| **Part 1b. Qualified Security Assessor Company Information (if applicable)** | | | | | | | | |
| Company Name: |  | | | | | | | |
| Lead QSA Contact Name: |  | | Title: |  | | | | |
| Telephone: |  | | E-mail: |  | | | | |
| Business Address: |  | | City: |  | | | | |
| State/Province: |  | Country: |  | | Zip: | |  | |
| URL: |  | | | | | | | |

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| **Part 2. Executive Summary** | |
| **Part 2a. Type of Merchant Business (check all that apply)** | |
| Retailer  Telecommunication  Grocery and Supermarkets | | |
| Petroleum  E-Commerce  Mail order/telephone order (MOTO) | | |
| Others (please specify): | | |
| What types of payment channels does your business serve?  Mail order/telephone order (MOTO)  E-Commerce  Card-present (face-to-face) | Which payment channels are covered by this SAQ?  Mail order/telephone order (MOTO)  E-Commerce  Card-present (face-to-face) | |
| ***Note:*** *If your organization has a payment channel or process that is not covered by this SAQ, consult your acquirer or payment brand about validation for the other channels.* | | | |

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| **Part 2. Executive Summary** *(continued)* | |
| **Part 2b. Description of Payment Card Business** | | |
| How and in what capacity does your business store, process and/or transmit cardholder data? |  | | |

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| --- | --- | --- | --- |
| **Part 2c. Locations** | | | |
| List types of facilities (for example, retail outlets, corporate offices, data centers, call centers, etc.) and a summary of locations included in the PCI DSS review. | | |
| **Type of facility** | **Number of facilities of this type** | **Location(s) of facility (city, country)** |
| *Example: Retail outlets* | *3* | *Boston, MA, USA* |
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| **Part 2d. Payment Applications** | | | | |
| Does the organization use one or more Payment Applications?  Yes  No | | | | |
| Provide the following information regarding the Payment Applications your organization uses: | | | | |
| **Payment Application Name** | **Version Number** | **Application Vendor** | **Is application  PA-DSS Listed?** | **PA-DSS Listing Expiry date (if applicable)** |
|  |  |  | Yes  No |  |
|  |  |  | Yes  No |  |
|  |  |  | Yes  No |  |
|  |  |  | Yes  No |  |
|  |  |  | Yes  No |  |

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| **Part 2e. Description of Environment** | | |
| Provide a ***high-level*** description of the environment covered by this assessment.  *For example:*   * *Connections into and out of the cardholder data environment (CDE).* * *Critical system components within the CDE, such as POS devices, databases, web servers, etc., and any other necessary payment components, as applicable.* |  | |
| Does your business use network segmentation to affect the scope of your PCI DSS environment?  *(Refer to “Network Segmentation” section of PCI DSS for guidance on network segmentation.)* | | Yes  No | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Part 2. Executive Summary** *(continued)* | | | | |
| **Part 2f. Third-Party Service Providers** | | | | |
| Does your company use a Qualified Integrator & Reseller (QIR)? | | | | Yes  No |
| ***If Yes:*** | | | |
| Name of QIR Company: | |  | |
| QIR Individual Name: | |  | |
| Description of services provided by QIR: | |  | |
| Does your company share cardholder data with any third-party service providers (for example, Qualified Integrator & Resellers (QIR), gateways, payment processors, payment service providers (PSP), web-hosting companies, airline booking agents, loyalty program agents, etc.)? | | | | Yes  No |
| ***If Yes:*** | | | | |
| **Name of service provider:** | | **Description of services provided:** | | |
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| ***Note:*** *Requirement 12.8 applies to all entities in this list.* | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Part 2g. Eligibility to Complete SAQ A-EP** | | | |
| Merchant certifies eligibility to complete this shortened version of the Self-Assessment Questionnaire because, for this payment channel: | | |
|  | | Merchant accepts only e-commerce transactions; |
|  | | All processing of cardholder data, with the exception of the payment page, is entirely outsourced to a PCI DSS validated third-party payment processor; |
|  | | Merchant’s e-commerce website does not receive cardholder data but controls how consumers, or their cardholder data, are redirected to a PCI DSS validated third-party payment processor; |
|  | | If merchant website is hosted by a third-party provider, the provider is validated to all applicable PCI DSS requirements (e.g., including PCI DSS Appendix A if the provider is a shared hosting provider); |
|  | | Each element of the payment page(s) delivered to the consumer’s browser originates from either the merchant’s website or a PCI DSS compliant service provider(s); |
|  | | Merchant does not electronically store, process, or transmit any cardholder data on merchant systems or premises, but relies entirely on a third party(s) to handle all these functions; |
|  | | Merchant has confirmed that all third party(s) handling storage, processing, and/or transmission of cardholder data are PCI DSS compliant; **and** |
|  | | Any cardholder data the merchant retains is on paper (for example, printed reports or receipts), and these documents are not received electronically. |

Section 2: Self-Assessment Questionnaire A-EP

***Note:*** *The following questions are numbered according to PCI DSS requirements and testing procedures, as defined in the* PCI DSS Requirements and Security Assessment Procedures *document.*

**Self-assessment completion date:**

## Build and Maintain a Secure Network

### Requirement 1: Install and maintain a firewall configuration to protect data

| **PCI DSS Question** | | **Expected Testing** | **Response**  *(Check one response for each question****)*** | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Yes** | **Yes with CCW** | **No** | **N/A** |
| 1.1 | Are firewall and router configuration standards established and implemented to include the following: |  |  |  |  |  |
| 1.1.1 | Is there a formal process for approving and testing all network connections and changes to the firewall and router configurations? | * Review documented process. * Interview personnel. * Examine network configurations. |  |  |  |  |
| 1.1.2 | (a) Is there a current network diagram that documents all connections between the cardholder data environment and other networks, including any wireless networks? | * Review current network diagram. * Examine network configurations. |  |  |  |  |
|  | (b) Is there a process to ensure the diagram is kept current? | * Interview responsible personnel. |  |  |  |  |
| 1.1.3 | (a) Is there a current diagram that shows all cardholder data flows across systems and networks? | * Review current dataflow diagram. * Examine network configurations. |  |  |  |  |
|  | (b) Is there a process to ensure the diagram is kept current? | * Interview personnel. |  |  |  |  |
| 1.1.4 | 1. Is a firewall required and implemented at each Internet connection and between any demilitarized zone (DMZ) and the internal network zone? | * Review firewall configuration standards. * Observe network configurations to verify that a firewall(s) is in place. |  |  |  |  |
|  | 1. Is the current network diagram consistent with the firewall configuration standards? | * Compare firewall configuration standards to current network diagram. |  |  |  |  |
| 1.1.6 | 1. Do firewall and router configuration standards include a documented list of services, protocols, and ports, including business justification and approval for each? | * Review firewall and router configuration standards. |  |  |  |  |
|  | 1. Are all insecure services, protocols, and ports identified, and are security features documented and implemented for each identified service? | * Review firewall and router configuration standards. * Examine firewall and router configurations. |  |  |  |  |
| 1.1.7 | (a) Do firewall and router configuration standards require review of firewall and router rule sets at least every six months? | * Review firewall and router configuration standards. |  |  |  |  |
|  | (b) Are firewall and router rule sets reviewed at least every six months? | * Examine documentation from firewall reviews. |  |  |  |  |
| 1.2 | Do firewall and router configurations restrict connections between untrusted networks and any system in the cardholder data environment as follows:  **Note:** An “untrusted network” is any network that is external to the networks belonging to the entity under review, and/or which is out of the entity’s ability to control or manage. |  |  |  |  |  |
| 1.2.1 | 1. Is inbound and outbound traffic restricted to that which is necessary for the cardholder data environment? | * Review firewall and router configuration standards. * Examine firewall and router configurations. |  |  |  |  |
|  | 1. Is all other inbound and outbound traffic specifically denied (for example by using an explicit “deny all” or an implicit deny after allow statement)? | * Review firewall and router configuration standards. * Examine firewall and router configurations. |  |  |  |  |
| 1.2.2 | Are router configuration files secured from unauthorized access and synchronized*—*for example, the running (or active) configuration matches the start-up configuration (used when machines are booted)? | * Review firewall and router configuration standards. * Examine router configuration files and router configurations. |  |  |  |  |
| 1.2.3 | Are perimeter firewalls installed between all wireless networks and the cardholder data environment, and are these firewalls configured to deny or, if traffic is necessary for business purposes, permit only authorized traffic between the wireless environment and the cardholder data environment? | * Review firewall and router configuration standards. * Examine firewall and router configurations. |  |  |  |  |
| 1.3 | Is direct public access prohibited between the Internet and any system component in the cardholder data environment, as follows: |  |  |  |  |  |
| 1.3.1 | Is a DMZ implemented to limit inbound traffic to only system components that provide authorized publicly accessible services, protocols, and ports? | * Examine firewall and router configurations. |  |  |  |  |
| 1.3.2 | Is inbound Internet traffic limited to IP addresses within the DMZ? | * Examine firewall and router configurations. |  |  |  |  |
| 1.3.3 | Are anti-spoofing measures implemented to detect and block forged sourced IP addresses from entering the network?  (For example, block traffic originating from the internet with an internal address) | * Examine firewall and router configurations. |  |  |  |  |
| 1.3.4 | Is outbound traffic from the cardholder data environment to the Internet explicitly authorized? | * Examine firewall and router configurations. |  |  |  |  |
| 1.3.5 | Are only established connections permitted into the network? | * Examine firewall and router configurations. |  |  |  |  |
| 1.3.7 | 1. Are methods in place to prevent the disclosure of private IP addresses and routing information to the Internet?   **Note:** Methods to obscure IP addressing may include, but are not limited to:   * *Network Address Translation (NAT)* * *Placing servers containing cardholder data behind proxy servers/firewalls,* * *Removal or filtering of route advertisements for private networks that employ registered addressing,*   *Internal use of RFC1918 address space instead of registered addresses*. | * Examine firewall and router configurations. |  |  |  |  |
|  | 1. Is any disclosure of private IP addresses and routing information to external entities authorized? | * Examine firewall and router configurations. * Interview personnel. |  |  |  |  |
| 1.4 | (a) Is personal firewall software (or equivalent functionality) installed and active on any portable computing devices (including company and/or employee-owned) that connect to the Internet when outside the network (for example, laptops used by employees), and which are also used to access the CDE? | * Review policies and configuration standards. * Examine mobile and/or employee-owned devices. |  |  |  |  |
|  | (b) Is the personal firewall software (or equivalent functionality) configured to specific configuration settings, actively running, and not alterable by users of mobile and/or employee-owned devices? | * Review policies and configuration standards. * Examine mobile and/or employee-owned devices. |  |  |  |  |
| 1.5 | Are security policies and operational procedures for managing firewalls:   * Documented * In use * Known to all affected parties? | * Review security policies and operational procedures. * Interview personnel. |  |  |  |  |

### 

### Requirement 2: Do not use vendor-supplied defaults for system passwords and other security parameters

| **PCI DSS Question** | | **Expected Testing** | **Response**  *(Check one response for each question****)*** | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Yes** | **Yes with CCW** | **No** | **N/A** |
| 2.1 | 1. Are vendor-supplied defaults always changed before installing a system on the network?   This applies to ALL default passwords, including but not limited to those used by operating systems, software that provides security services, application and system accounts, point-of-sale (POS) terminals, payment applications, Simple Network Management Protocol (SNMP) community strings, etc.). | * Review policies and procedures. * Examine vendor documentation. * Observe system configurations and account settings. * Interview personnel. |  |  |  |  |
|  | 1. Are unnecessary default accounts removed or disabled before installing a system on the network? | * Review policies and procedures. * Review vendor documentation. * Examine system configurations and account settings. * Interview personnel. |  |  |  |  |
| 2.2 | 1. Are configuration standards developed for all system components and are they consistent with industry-accepted system hardening standards?   Sources of industry-accepted system hardening standards may include, but are not limited to, SysAdmin Audit Network Security (SANS) Institute, National Institute of Standards Technology (NIST), International Organization for Standardization (ISO), and Center for Internet Security (CIS). | * Review system configuration standards. * Review industry-accepted hardening standards. * Review policies and procedures. * Interview personnel. |  |  |  |  |
|  | 1. Are system configuration standards updated as new vulnerability issues are identified, as defined in Requirement 6.1? | * Review policies and procedures. * Interview personnel. |  |  |  |  |
|  | 1. Are system configuration standards applied when new systems are configured? | * Review policies and procedures. * Interview personnel. |  |  |  |  |
| 2.2 *(cont.)* | 1. Do system configuration standards include all of the following:  * Changing of all vendor-supplied defaults and elimination of unnecessary default accounts? * Implementing only one primary function per server to prevent functions that require different security levels from co-existing on the same server? * Enabling only necessary services, protocols, daemons, etc., as required for the function of the system? * Implementing additional security features for any required services, protocols or daemons that are considered to be insecure? * Configuring system security parameters to prevent misuse? * Removing all unnecessary functionality, such as scripts, drivers, features, subsystems, file systems, and unnecessary web servers? | * Review system configuration standards. |  |  |  |  |
| 2.2.1 | 1. Is only one primary function implemented per server, to prevent functions that require different security levels from co-existing on the same server?   For example, web servers, database servers, and DNS should be implemented on separate servers. | * Examine system configurations. |  |  |  |  |
|  | (b) If virtualization technologies are used, is only one primary function implemented per virtual system component or device? | * Examine system configurations. |  |  |  |  |
| 2.2.2 | 1. Are only necessary services, protocols, daemons, etc. enabled as required for the function of the system (services and protocols not directly needed to perform the device’s specified function are disabled)? | * Review configuration standards. * Examine system configurations. |  |  |  |  |
|  | 1. Are all enabled insecure services, daemons, or protocols justified per documented configuration standards? | * Review configuration standards. * Interview personnel. * Examine configuration settings. * Compare enabled services, etc. to documented justifications. |  |  |  |  |
| 2.2.3 | Are additional security features documented and implemented for any required services, protocols or daemons that are considered to be insecure? | * Review configuration standards. * Examine configuration settings. |  |  |  |  |
| 2.2.4 | 1. Are system administrators and/or personnel that configure system components knowledgeable about common security parameter settings for those system components? | * Interview personnel. |  |  |  |  |
|  | 1. Are common system security parameters settings included in the system configuration standards? | * Review system configuration standards. |  |  |  |  |
|  | 1. Are security parameter settings set appropriately on system components? | * Examine system components. * Examine security parameter settings. * Compare settings to system configuration standards. |  |  |  |  |
| 2.2.5 | 1. Has all unnecessary functionality—such as scripts, drivers, features, subsystems, file systems, and unnecessary web servers—been removed? | * Examine security parameters on system components. |  |  |  |  |
|  | 1. Are enabled functions documented and do they support secure configuration? | * Review documentation. * Examine security parameters on system components. |  |  |  |  |
|  | 1. Is only documented functionality present on system components? | * Review documentation. * Examine security parameters on system components. |  |  |  |  |
| 2.3 | Is non-console administrative access encrypted as follows: |  |  |  |  |  |
|  | 1. Is all non-console administrative access encrypted with strong cryptography, and is a strong encryption method invoked before the administrator’s password is requested? | * Examine system components. * Examine system configurations. * Observe an administrator log on. |  |  |  |  |
|  | 1. Are system services and parameter files configured to prevent the use of Telnet and other insecure remote login commands? | * Examine system components. * Examine services and files. |  |  |  |  |
|  | 1. Is administrator access to web-based management interfaces encrypted with strong cryptography? | * Examine system components. * Observe an administrator log on. |  |  |  |  |
|  | 1. For the technology in use, is strong cryptography implemented according to industry best practice and/or vendor recommendations? | * Examine system components. * Review vendor documentation. * Interview personnel. |  |  |  |  |

## Protect Cardholder Data

### Requirement 3: Protect stored cardholder data

| **PCI DSS Question** | | **Expected Testing** | **Response**  *(Check one response for each question****)*** | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Yes** | **Yes with CCW** | **No** | **N/A** |
| 3.2 | (c) Is sensitive authentication data deleted or rendered unrecoverable upon completion of the authorization process? | * Review policies and procedures. * Examine system configurations. * Examine deletion processes. |  |  |  |  |
|  | (d) Do all systems adhere to the following requirements regarding non-storage of sensitive authentication data after authorization (even if encrypted): |  |  |  |  |  |
| 3.2.2 | The card verification code or value (three-digit or four-digit number printed on the front or back of a payment card) is not stored after authorization? | * Examine data sources including: * Incoming transaction data * All logs * History files * Trace files * Database schema * Database contents |  |  |  |  |
| 3.2.3 | The personal identification number (PIN) or the encrypted PIN block is not stored after authorization? | * Examine data sources including: * Incoming transaction data * All logs * History files * Trace files * Database schema * Database contents |  |  |  |  |

### Requirement 4: Encrypt transmission of cardholder data across open, public networks

| **PCI DSS Question** | | **Expected Testing** | **Response**  *(Check one response for each question)* | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Yes** | **Yes with CCW** | **No** | **N/A** |
| 4.1 | (a) Are strong cryptography and security protocols used to safeguard sensitive cardholder data during transmission over open, public networks?  **Note:** Examples of open, public networks include but are not limited to the Internet; wireless technologies, including 802.11 and Bluetooth; cellular technologies, for example, Global System for Mobile communications (GSM), Code division multiple access (CDMA); and General Packet Radio Service (GPRS). | * Review documented standards. * Review policies and procedures. * Review all locations where CHD is transmitted or received. * Examine system configurations. |  |  |  |  |
| (b) Are only trusted keys and/or certificates accepted? | * Observe inbound and outbound transmissions. * Examine keys and certificates. |  |  |  |  |
| 1. Are security protocols implemented to use only secure configurations, and to not support insecure versions or configurations? | * Examine system configurations. |  |  |  |  |
| 1. Is the proper encryption strength implemented for the encryption methodology in use (check vendor recommendations/best practices)? | * Review vendor documentation. * Examine system configurations. |  |  |  |  |
| 1. For TLS implementations, is TLS enabled whenever cardholder data is transmitted or received?   For example, for browser-based implementations:   * *“HTTPS” appears as the browser Universal Record Locator (URL) protocol, and* * *Cardholder data is only requested if “HTTPS” appears as part of the URL.* | * Examine system configurations. |  |  |  |  |
| 4.2 | (b) Are policies in place that state that unprotected PANs are not to be sent via end-user messaging technologies? | * Review policies and procedures. |  |  |  |  |
| 4.3 | Are security policies and operational procedures for encrypting transmissions of cardholder data:   * Documented * In use * Known to all affected parties? | * Review security policies and operational procedures. * Interview personnel. |  |  |  |  |

## Maintain a Vulnerability Management Program

### Requirement 5: Protect all systems against malware and regularly update anti-virus software or programs

| **PCI DSS Question** | | **Expected Testing** | **Response**  *(Check one response for each question****)*** | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Yes** | **Yes with CCW** | **No** | **N/A** | |
| 5.1 | Is anti-virus software deployed on all systems commonly affected by malicious software? | * Examine system configurations. |  |  |  |  |
| 5.1.1 | Are anti-virus programs capable of detecting, removing, and protecting against all known types of malicious software (for example, viruses, Trojans, worms, spyware, adware, and rootkits)? | * Review vendor documentation. * Examine system configurations. |  |  |  |  |
| 5.1.2 | Are periodic evaluations performed to identify and evaluate evolving malware threats in order to confirm whether those systems considered to not be commonly affected by malicious software continue as such? | * Interview personnel. |  |  |  |  |
| 5.2 | Are all anti-virus mechanisms maintained as follows: |  |  |  |  |  |
| 1. Are all anti-virus software and definitions kept current? | * Examine policies and procedures. * Examine anti-virus configurations, including the master installation. * Examine system components. |  |  |  |  |
| 1. Are automatic updates and periodic scans enabled and being performed? | * Examine anti-virus configurations, including the master installation. * Examine system components. |  |  |  |  |
| 1. Are all anti-virus mechanisms generating audit logs, and are logs retained in accordance with PCI DSS Requirement 10.7? | * Examine anti-virus configurations. * Review log retention processes. |  |  |  |  |
| 5.3 | Are all anti-virus mechanisms:   * Actively running? * Unable to be disabled or altered by users?   **Note:** Anti-virus solutions may be temporarily disabled only if there is legitimate technical need, as authorized by management on a case-by-case basis. If anti-virus protection needs to be disabled for a specific purpose, it must be formally authorized. Additional security measures may also need to be implemented for the period of time during which anti-virus protection is not active. | * Examine anti-virus configurations. * Examine system components. * Observe processes. * Interview personnel. |  |  |  |  |
| 5.4 | Are security policies and operational procedures for protecting systems against malware:   * Documented * In use * Known to all affected parties? | * Review security policies and operational procedures. * Interview personnel. |  |  |  |  |

### Requirement 6: Develop and maintain secure systems and applications

| **PCI DSS Question** | | **Expected Testing** | **Response**  *(Check one response for each question****)*** | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Yes** | | **Yes with CCW** | **No** | **N/A** |
| 6.1 | Is there a process to identify security vulnerabilities, including the following:   * Using reputable outside sources for vulnerability information? * Assigning a risk ranking to vulnerabilities that includes identification of all “high” risk and “critical” vulnerabilities?   **Note**: Risk rankings should be based on industry best practices as well as consideration of potential impact. For example, criteria for ranking vulnerabilities may include consideration of the CVSS base score and/or the classification by the vendor, and/or type of systems affected.  Methods for evaluating vulnerabilities and assigning risk ratings will vary based on an organization’s environment and risk assessment strategy. Risk rankings should, at a minimum, identify all vulnerabilities considered to be a “high risk” to the environment. In addition to the risk ranking, vulnerabilities may be considered “critical” if they pose an imminent threat to the environment, impact critical systems, and/or would result in a potential compromise if not addressed. Examples of critical systems may include security systems, public-facing devices and systems, databases, and other systems that store, process or transmit cardholder data. | * Review policies and procedures. * Interview personnel. * Observe processes. | |  |  |  |  | |
| 6.2 | 1. Are all system components and software protected from known vulnerabilities by installing applicable vendor-supplied security patches? | * Review policies and procedures. | |  |  |  |  | |
|  | 1. Are critical security patches installed within one month of release?   **Note**: Critical security patches should be identified according to the risk ranking process defined in Requirement 6.1. | * Review policies and procedures. * Examine system components. * Compare list of security patches installed to recent vendor patch lists. | |  |  |  |  | |
| 6.4.5 | 1. Are change-control procedures documented and require the following?  * Documentation of impact * Documented change control approval by authorized parties * Functionality testing to verify that the change does not adversely impact the security of the system * Back-out procedures | * Review change control processes and procedures. | |  |  |  |  | |
|  | 1. Are the following performed and documented for all changes: |  | |  |  |  |  | |
| 6.4.5.1 | Documentation of impact? | * Trace changes to change control documentation. * Examine change control documentation. | |  |  |  |  | |
| 6.4.5.2 | Documented approval by authorized parties? | * Trace changes to change control documentation. * Examine change control documentation. | |  |  |  |  | |
| 6.4.5.3 | 1. Functionality testing to verify that the change does not adversely impact the security of the system? | * Trace changes to change control documentation. * Examine change control documentation. | |  |  |  |  | |
|  | 1. For custom code changes, testing of updates for compliance with PCI DSS Requirement 6.5 before being deployed into production? | * Trace changes to change control documentation. * Examine change control documentation. | |  |  |  |  | |
| 6.4.5.4 | Back-out procedures? | * Trace changes to change control documentation. * Examine change control documentation. | |  |  |  |  | |
| 6.4.6 | Upon completion of a significant change, are all relevant PCI DSS requirements implemented on all new or changed systems and networks, and documentation updated as applicable? | * Trace changes to change control documentation. * Examine change control documentation. * Interview personnel. * Observe affected systems or networks. | |  |  |  |  | |
| 6.5 | Do software-development processes address common coding vulnerabilities? | * Review software-development policies and procedures. | |  |  |  |  | |
|  | Are developers trained at least annually in up-to-date secure coding techniques, including how to avoid common coding vulnerabilities? | * Examine software-development policies and procedures. * Examine training records. | |  |  |  |  | |
|  | (c) Are applications developed based on secure coding guidelines to protect applications from, at a minimum, the following vulnerabilities: |  | |  |  |  |  | |
| 6.5.1 | Do coding techniques address injection flaws, particularly SQL injection?  **Note:** Also consider OS Command Injection, LDAP and XPath injection flaws as well as other injection flaws. | * Examine software-development policies and procedures. * Interview responsible personnel. | |  |  |  |  | |
| 6.5.2 | Do coding techniques address buffer overflow vulnerabilities? | * Examine software-development policies and procedures. * Interview responsible personnel. | |  |  |  |  | |
| 6.5.4 | Do coding techniques address insecure communications? | * Examine software-development policies and procedures. * Interview responsible personnel. | |  |  |  |  | |
| 6.5.5 | Do coding techniques address improper error handling? | * Examine software-development policies and procedures. * Interview responsible personnel. | |  |  |  |  | |
| 6.5.6 | Do coding techniques address all “high risk” vulnerabilities identified in the vulnerability identification process (as defined in PCI DSS Requirement 6.1)? | * Examine software-development policies and procedures. * Interview responsible personnel. | |  |  |  |  | |
| For web applications and application interfaces (internal or external), are applications developed based on secure coding guidelines to protect applications from the following additional vulnerabilities: | | | |  |  |  |  | |
| 6.5.7 | Do coding techniques address cross-site scripting (XSS) vulnerabilities? | * Examine software-development policies and procedures. * Interview responsible personnel. | |  |  |  |  | |
| 6.5.8 | Do coding techniques address improper access control such as insecure direct object references, failure to restrict URL access, directory traversal, and failure to restrict user access to functions? | * Examine software-development policies and procedures. * Interview responsible personnel. | |  |  |  |  | |
| 6.5.9 | Do coding techniques address cross-site request forgery (CSRF)? | * Examine software-development policies and procedures. * Interview responsible personnel. | |  |  |  |  | |
| 6.5.10 | Do coding techniques address broken authentication and session management? | * Examine software-development policies and procedures. * Interview responsible personnel. | |  |  |  |  | |
| 6.6 | For public-facing web applications, are new threats and vulnerabilities addressed on an ongoing basis, and are these applications protected against known attacks by applying *either* of the following methods?   * Reviewing public-facing web applications via manual or automated application vulnerability security assessment tools or methods, as follows: * At least annually * After any changes * By an organization that specializes in application security * That, at a minimum, all vulnerabilities in Requirement 6.5 are included in the assessment * That all vulnerabilities are corrected * That the application is re-evaluated after the corrections   **Note**: This assessment is not the same as the vulnerability scans performed for Requirement 11.2.  – **OR** –   * Installing an automated technical solution that detects and prevents web-based attacks (for example, a web-application firewall) as follows: * Is situated in front of public-facing web applications to detect and prevent web-based attacks. * Is actively running and up to date as applicable. * Is generating audit logs. * Is configured to either block web-based attacks, or generate an alert that is immediately investigated. | * Review documented processes. * Interview personnel. * Examine records of application security assessments. * Examine system configuration settings. | |  |  |  |  | |
| 6.7 | Are security policies and operational procedures for developing and maintaining secure systems and applications:   * Documented * In use * Known to all affected parties? | * Review security policies and operational procedures. * Interview personnel. | |  |  |  |  | |

## Implement Strong Access Control Measures

### Requirement 7: Restrict access to cardholder data by business need to know

| **PCI DSS Question** | | **Expected Testing** | **Response**  *(Check one response for each question****)*** | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Yes** | **Yes with CCW** | | **No** | | **N/A** |
| 7.1 | Is access to system components and cardholder data limited to only those individuals whose jobs require such access, as follows: |  |  | |  | |  |  | |
| 7.1.2 | Is access to privileged user IDs restricted as follows:   * To least privileges necessary to perform job responsibilities? * Assigned only to roles that specifically require that privileged access? | * Examine written access control policy. * Interview personnel. * Interview management. * Review privileged user IDs. |  | |  | |  |  | |
| 7.1.3 | Is access assigned based on individual personnel’s job classification and function? | * Examine written access control policy. * Interview management. * Review user IDs. |  | |  | |  |  | |
| 7.1.4 | Is documented approval by authorized parties required, specifying required privileges? | * Review user IDs. * Compare with documented approvals. * Compare assigned privileges with documented approvals. |  | |  | |  |  | |

### Requirement 8: Identify and authenticate access to system components

| **PCI DSS Question** | | **Expected Testing** | **Response**  *(Check one response for each question****)*** | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Yes** | **Yes with CCW** | **No** | | **N/A** |
| 8.1 | Are policies and procedures for user identification management controls defined and in place for non-consumer users and administrators on all system components, as follows: |  |  |  | |  |  | |
| 8.1.1 | Are all users assigned a unique ID before allowing them to access system components or cardholder data? | * Review password procedures. * Interview personnel. |  |  | |  |  | |
| 8.1.2 | Are additions, deletions, and modifications of user IDs, credentials, and other identifier objects controlled such that user IDs are implemented only as authorized (including with specified privileges)? | * Review password procedures. * Examine privileged and general user IDs and associated authorizations. * Observe system settings. |  |  | |  |  | |
| 8.1.3 | Is access for any terminated users immediately deactivated or removed? | * Review password procedures. * Examine terminated users accounts. * Review current access lists. * Observe returned physical authentication devices. |  |  | |  |  | |
| 8.1.4 | Are inactive user accounts either removed or disabled within 90 days? | * Review password procedures. * Observe user accounts. |  |  | |  |  | |
| 8.1.5 | 1. Are accounts used by third parties to access, support, or maintain system components via remote access enabled only during the time period needed and disabled when not in use? | * Review password procedures. * Interview personnel. * Observe processes. |  |  | |  |  | |
| 1. Are third-party remote access accounts monitored when in use? | * Interview personnel. * Observe processes. |  |  | |  |  | |
| 8.1.6 | (a) Are repeated access attempts limited by locking out the user ID after no more than six attempts? | * Review password procedures. * Examine system configuration settings. |  |  | |  |  | |
| 8.1.7 | Once a user account is locked out, is the lockout duration set to a minimum of 30 minutes or until an administrator enables the user ID? | * Review password procedures. * Examine system configuration settings. |  |  | |  |  | |
| 8.1.8 | If a session has been idle for more than 15 minutes, are users required to re-authenticate (for example, re-enter the password) to re-activate the terminal or session? | * Review password procedures. * Examine system configuration settings. |  |  | |  |  | |
| 8.2 | In addition to assigning a unique ID, is one or more of the following methods employed to authenticate all users?   * Something you know, such as a password or passphrase * Something you have, such as a token device or smart card * Something you are, such as a biometric | * Review password procedures. * Observe authentication processes. |  |  | |  |  | |
| 8.2.1 | (a) Is strong cryptography used to render all authentication credentials (such as passwords/passphrases) unreadable during transmission and storage on all system components? | * Review password procedures. * Review vendor documentation. * Examine system configuration settings. * Observe password files. * Observe data transmissions. |  |  | |  |  | |
| 8.2.2 | Is user identity verified before modifying any authentication credential (for example, performing password resets, provisioning new tokens, or generating new keys)? | * Review authentication procedures. * Observe personnel. |  |  | |  |  | |
| 8.2.3 | 1. Are user password parameters configured to require passwords/passphrases meet the following?  * A minimum password length of at least seven characters * Contain both numeric and alphabetic characters   Alternatively, the passwords/passphrases must have complexity and strength at least equivalent to the parameters specified above. | * Examine system configuration settings to verify password parameters. |  |  | |  |  | |
| 8.2.4 | (a) Are user passwords/passphrases changed at least once every 90 days? | * Review password procedures. * Examine system configuration settings. |  |  | |  |  | |
| 8.2.5 | (a) Must an individual submit a new password/phrase that is different from any of the last four passwords/passphrases he or she has used? | * Review password procedures. * Sample system components. * Examine system configuration settings. |  |  | |  |  | |
| 8.2.6 | Are passwords/passphrases set to a unique value for each user for first-time use and upon reset, and must each user change their password immediately after the first use? | * Review password procedures. * Examine system configuration settings. * Observe security personnel. |  |  | |  |  | |
| 8.3 | Is all individual non-console administrative access and all remote access to the CDE secured using multi-factor authentication, as follows:  **Note:** Multi-factor authentication requires that a minimum of two of the three authentication methods (see PCI DSS Requirement 8.2 for descriptions of authentication methods) be used for authentication. Using one factor twice (for example, using two separate passwords) is not considered multi-factor authentication. |  | | | | | | |
| 8.3.1 | Is multi-factor authentication incorporated for all non-console access into the CDE for personnel with administrative access? | * Examine system configurations. * Observe administrator logging into CDE. |  |  | |  |  | |
| 8.3.2 | Is multi-factor authentication incorporated for all remote network access (both user and administrator, and including third-party access for support or maintenance) originating from outside the entity’s network? | * Examine system configurations. * Observe personnel connecting remotely. |  |  | |  |  | |
| 8.4 | (a) Are authentication policies and procedures documented and communicated to all users? | * Review policies and procedures. * Review distribution method. * Interview personnel. * Interview users. |  |  | |  |  | |
|  | 1. Do authentication policies and procedures include the following?  * Guidance on selecting strong authentication credentials * Guidance for how users should protect their authentication credentials * Instructions not to reuse previously used passwords * Instructions that users should change passwords if there is any suspicion the password could be compromised | * Review policies and procedures. * Review documentation provided to users. |  |  | |  |  | |
| 8.5 | Are group, shared, or generic accounts, passwords, or other authentication methods prohibited as follows:   * Generic user IDs and accounts are disabled or removed; * Shared user IDs for system administration activities and other critical functions do not exist; and * Shared and generic user IDs are not used to administer any system components? | * Review policies and procedures. * Examine user ID lists. * Interview personnel. |  |  | |  |  | |
| 8.6 | Where other authentication mechanisms are used (for example, physical or logical security tokens, smart cards, and certificates, etc.), is the use of these mechanisms assigned as follows?   * Authentication mechanisms must be assigned to an individual account and not shared among multiple accounts * Physical and/or logical controls must be in place to ensure only the intended account can use that mechanism to gain access | * Review policies and procedures. * Interview personnel. * Examine system configuration settings and/or physical controls. |  |  | |  |  | |
| 8.8 | Are security policies and operational procedures for identification and authentication:   * Documented * In use * Known to all affected parties? | * Examine security policies and operational procedures. * Interview personnel. |  |  | |  |  | |

### Requirement 9: Restrict physical access to cardholder data

| **PCI DSS Question** | | **Expected Testing** | **Response**  *(Check one response for each question****)*** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Yes** | **Yes with CCW** | | **No** | | **N/A** | |
| 9.1 | Are appropriate facility entry controls in place to limit and monitor physical access to systems in the cardholder data environment? | * Observe physical access controls. * Observe personnel. |  | |  | |  | |  | |
| 9.5 | Are all media physically secured (including but not limited to computers, removable electronic media, paper receipts, paper reports, and faxes)?  For purposes of Requirement 9, “media” refers to all paper and electronic media containing cardholder data. | * Review policies and procedures for physically securing media. * Interview personnel. |  | |  | |  | |  | |
| 9.6 | 1. Is strict control maintained over the internal or external distribution of any kind of media? | * Review policies and procedures for distribution of media. |  | |  | |  | |  | |
| 1. Do controls include the following: |  |  | |  | |  | |  | |
| 9.6.1 | Is media classified so the sensitivity of the data can be determined? | * Review policies and procedures for media classification. * Interview security personnel. |  | |  | |  | |  | |
| 9.6.2 | Is media sent by secured courier or other delivery method that can be accurately tracked? | * Interview personnel. * Examine media distribution tracking logs and documentation. |  | |  | |  | |  | |
| 9.6.3 | Is management approval obtained prior to moving the media (especially when media is distributed to individuals)? | * Interview personnel. * Examine media distribution tracking logs and documentation. |  | |  | |  | |  | |
| 9.7 | Is strict control maintained over the storage and accessibility of media? | * Review policies and procedures. |  | |  | |  | |  | |
| 9.8 | 1. Is all media destroyed when it is no longer needed for business or legal reasons? | * Review periodic media destruction policies and procedures. |  | |  | |  | |  | |
|  | (c) Is media destruction performed as follows: |  |  | |  | |  | |  | |
| 9.8.1 | 1. Are hardcopy materials cross-cut shredded, incinerated, or pulped so that cardholder data cannot be reconstructed? | * Review periodic media destruction policies and procedures. * Interview personnel. * Observe processes. |  | |  | |  | |  | |
|  | 1. Are storage containers used for materials that contain information to be destroyed secured to prevent access to the contents? | * Examine security of storage containers. |  | |  | |  | |  | |

## Regularly Monitor and Test Networks

### Requirement 10: Track and monitor all access to network resources and cardholder data

| **PCI DSS Question** | | **Expected Testing** | **Response**  *(Check one response for each question)* | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Yes** | **Yes with CCW** | **No** | **N/A** |
| 10.1 | Are audit trails enabled and active for system components? | * Observe processes. * Interview system administrator. |  |  |  |  |
|  | Is access to system components linked to individual users? | * Observe processes. * Interview system administrator. |  |  |  |  |
| 10.2 | Are automated audit trails implemented for all system components to reconstruct the following events: |  |  |  |  |  |
| 10.2.2 | All actions taken by any individual with root or administrative privileges? | * Interview personnel. * Observe audit logs. * Examine audit log settings. |  |  |  |  |
| 10.2.3 | Access to all audit trails? | * Interview personnel. * Observe audit logs. * Examine audit log settings. |  |  |  |  |
| 10.2.4 | Invalid logical access attempts? | * Interview personnel. * Observe audit logs. * Examine audit log settings. |  |  |  |  |
| 10.2.5 | Use of and changes to identification and authentication mechanisms–including but not limited to creation of new accounts and elevation of privileges – and all changes, additions, or deletions to accounts with root or administrative privileges? | * Interview personnel. * Observe audit logs. * Examine audit log settings. |  |  |  |  |
| 10.2.6 | Initialization, stopping, or pausing of the audit logs? | * Interview personnel. * Observe audit logs. * Examine audit log settings. |  |  |  |  |
| 10.2.7 | Creation and deletion of system-level objects? | * Interview personnel. * Observe audit logs. * Examine audit log settings. |  |  |  |  |
| 10.3 | Are the following audit trail entries recorded for all system components for each event: |  |  |  |  |  |
| 10.3.1 | User identification? | * Interview personnel. * Observe audit logs. * Examine audit log settings. |  |  |  |  |
| 10.3.2 | Type of event? | * Interview personnel. * Observe audit logs. * Examine audit log settings. |  |  |  |  |
| 10.3.3 | Date and time? | * Interview personnel. * Observe audit logs. * Examine audit log settings. |  |  |  |  |
| 10.3.4 | Success or failure indication? | * Interview personnel. * Observe audit logs. * Examine audit log settings. |  |  |  |  |
| 10.3.5 | Origination of event? | * Interview personnel. * Observe audit logs. * Examine audit log settings. |  |  |  |  |
| 10.3.6 | Identity or name of affected data, system component, or resource? | * Interview personnel. * Observe audit logs. * Examine audit log settings. |  |  |  |  |
| 10.4 | Are all critical system clocks and times synchronized through use of time synchronization technology, and is the technology kept current?  ***Note:*** *One example of time synchronization technology is Network Time Protocol (NTP).* | * Review time configuration standards and processes. |  |  |  |  |
| 10.4.1 | Are the following processes implemented for critical systems to have the correct and consistent time: |  | | | | |
|  | (a) Do only designated central time server(s) receive time signals from external sources, and are time signals from external sources based on International Atomic Time or UTC? | * Review time configuration standards and processes. * Examine time-related system parameters. |  |  |  |  |
|  | (b) Where there is more than one designated time server, do the time servers peer with each other to keep accurate time? | * Review time configuration standards and processes. * Examine time-related system parameters. |  |  |  |  |
|  | (c) Do systems receive time only from designated central time server(s)? | * Review time configuration standards and processes. * Examine time-related system parameters. |  |  |  |  |
| 10.4.2 | Is time data is protected as follows:  (a) Is access to time data restricted to only personnel with a business need to access time data? | * Examine system configurations and time-synchronization settings. |  |  |  |  |
|  | (b) Are changes to time settings on critical systems logged, monitored, and reviewed? | * Examine system configurations and time-synchronization settings and logs. |  |  |  |  |
| 10.4.3 | Are time settings received from specific, industry-accepted time sources? (This is to prevent a malicious individual from changing the clock).  *Optionally, those updates can be encrypted with a symmetric key, and access control lists can be created that specify the IP addresses of client machines that will be provided with the time updates (to prevent unauthorized use of internal time servers).* | * Examine system configurations. |  |  |  |  |
| 10.5 | Are audit trails secured so they cannot be altered, as follows: |  | | | | |
| 10.5.1 | Is viewing of audit trails limited to those with a job-related need? | * Interview system administrators * Examine system configurations and permissions |  |  |  |  |
| 10.5.2 | Are audit trail files protected from unauthorized modifications via access control mechanisms, physical segregation, and/or network segregation? | * Interview system administrators. * Examine system configurations and permissions. |  |  |  |  |
| 10.5.3 | Are audit trail files promptly backed up to a centralized log server or media that is difficult to alter? | * Interview system administrators. * Examine system configurations and permissions. |  |  |  |  |
| 10.5.4 | Are logs for external-facing technologies (for example, wireless, firewalls, DNS, mail) written onto a secure, centralized, internal log server or media? | * Interview system administrators. * Examine system configurations and permissions. |  |  |  |  |
| 10.5.5 | Is file-integrity monitoring or change-detection software used on logs to ensure that existing log data cannot be changed without generating alerts (although new data being added should not cause an alert)? | * Examine settings, monitored files, and results from monitoring activities. |  |  |  |  |
| 10.6 | Are logs and security events for all system components reviewed to identify anomalies or suspicious activity as follows?  **Note:** Log harvesting, parsing, and alerting tools may be used to achieve compliance with Requirement 10.6. |  |  |  |  |  |
| 10.6.1 | (b) Are the following logs and security events reviewed at least daily, either manually or via log tools?   * All security events * Logs of all system components that store, process, or transmit CHD and/or SAD * Logs of all critical system components * Logs of all servers and system components that perform security functions (for example, firewalls, intrusion-detection systems/intrusion-prevention systems (IDS/IPS), authentication servers, e-commerce redirection servers, etc.) | * Review security policies and procedures. * Observe processes. * Interview personnel. |  |  |  |  |
| 10.6.2 | (b) Are logs of all other system components periodically reviewed—either manually or via log tools—based on the organization’s policies and risk management strategy? | * Review security policies and procedures. * Review risk assessment documentation. * Interview personnel. |  |  |  |  |
| 10.6.3 | (b) Is follow up to exceptions and anomalies identified during the review process performed? | * Review security policies and procedures. * Observe processes. * Interview personnel. |  |  |  |  |
| 10.7 | (b) Are audit logs retained for at least one year? | * Review security policies and procedures. * Interview personnel. * Examine audit logs. |  |  |  |  |
|  | (c) Are at least the last three months’ logs immediately available for analysis? | * Interview personnel. * Observe processes. |  |  |  |  |

### Requirement 11: Regularly test security systems and processes

| **PCI DSS Question** | | | **Expected Testing** | **Response**  *(Check one response for each question)* | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Yes** | **Yes with CCW** | **No** | **N/A** |
| 11.2.2 | 1. Are quarterly external vulnerability scans performed?   ***Note:*** Quarterly external vulnerability scans must be performed by an Approved Scanning Vendor (ASV), approved by the Payment Card Industry Security Standards Council (PCI SSC).  Refer to the ASV Program Guide published on the PCI SSC website for scan customer responsibilities, scan preparation, etc. | | * Review results from the four most recent quarters of external vulnerability scans. |  |  |  |  |
| 1. Do external quarterly scan and rescan results satisfy the *ASV Program Guide* requirements for a passing scan (for example, no vulnerabilities rated 4.0 or higher by the CVSS, and no automatic failures)? | | * Review results of each external quarterly scan and rescan. |  |  |  |  |
| 1. Are quarterly external vulnerability scans performed by a PCI SSC Approved Scanning Vendor (ASV? | | * Review results of each external quarterly scan and rescan. |  |  |  |  |
| 11.2.3 | 1. Are internal and external scans, and rescans as needed, performed after any significant change?   ***Note:*** Scans must be performed by qualified personnel. | | * Examine and correlate change control documentation and scan reports. |  |  |  |  |
|  | 1. Does the scan process include rescans until:  * For external scans, no vulnerabilities exist that are scored 4.0 or higher by the CVSS; * For internal scans, a passing result is obtained or all “high-risk” vulnerabilities as defined in PCI DSS Requirement 6.1 are resolved? | | * Review scan reports. |  |  |  |  |
|  | 1. Are scans performed by a qualified internal resource(s) or qualified external third party, and if applicable, does organizational independence of the tester exist (not required to be a QSA or ASV)? | | * Interview personnel. |  |  |  |  |
| 11.3 | | Does the penetration-testing methodology include the following?   * Is based on industry-accepted penetration testing approaches (for example, NIST SP800-115) * Includes coverage for the entire CDE perimeter and critical systems * Includes testing from both inside and outside the network * Includes testing to validate any segmentation and scope-reduction controls * Defines application-layer penetration tests to include, at a minimum, the vulnerabilities listed in Requirement 6.5 * Defines network-layer penetration tests to include components that support network functions as well as operating systems * Includes review and consideration of threats and vulnerabilities experienced in the last 12 months * Specifies retention of penetration testing results and remediation activities results | * Examine penetration-testing methodology. * Interview responsible personnel. |  |  |  |  |
| 11.3.1 | | (a) Is *external* penetration testing performed per the defined methodology, at least annually, and after any significant infrastructure or application changes to the environment (such as an operating system upgrade, a sub-network added to the environment, or an added web server)? | * Examine scope of work. * Examine results from the most recent external penetration test. |  |  |  |  |
|  | | (b) Are tests performed by a qualified internal resource or qualified external third party, and if applicable, does organizational independence of the tester exist (not required to be a QSA or ASV)? | * Interview responsible personnel. |  |  |  |  |
| 11.3.3 | | Are exploitable vulnerabilities found during penetration testing corrected, followed by repeated testing to verify the corrections? | * Examine penetration testing results. |  |  |  |  |
| 11.3.4 | | If segmentation is used to isolate the CDE from other networks: |  |  |  |  |  |
| (a) Are penetration-testing procedures defined to test all segmentation methods, to confirm they are operational and effective, and isolate all out-of-scope systems from systems in the CDE? | * Examine segmentation controls. * Review penetration-testing methodology. |  |  |  |  |
|  | | (b) Does penetration testing to verify segmentation controls meet the following?   * Performed at least annually and after any changes to segmentation controls/methods. * Covers all segmentation controls/methods in use. * Verifies that segmentation methods are operational and effective, and isolate all out-of-scope systems from systems in the CDE. | * Examine results from the most recent penetration test. |  |  |  |  |
|  | | (c) Are tests performed by a qualified internal resource or qualified external third party, and if applicable, does organizational independence of the tester exist (not required to be a QSA or ASV)? | * Interview responsible personnel. |  |  |  |  |
| 11.4 | 1. Are intrusion-detection and/or intrusion-prevention techniques that detect and/or prevent intrusions into the network in place to monitor all traffic:  * At the perimeter of the cardholder data environment, and * At critical points in the cardholder data environment. | | * Examine system configurations. * Examine network diagrams. |  |  |  |  |
|  | 1. Are intrusion-detection and/or intrusion-prevention techniques configured to alert personnel of suspected compromises? | | * Examine system configurations. * Interview responsible personnel. |  |  |  |  |
|  | 1. Are all intrusion-detection and prevention engines, baselines, and signatures kept up-to-date? | | * Examine IDS/IPS configurations. * Examine vendor documentation. |  |  |  |  |
| 11.5 | 1. Is a change-detection mechanism (for example, file-integrity monitoring tools) deployed to detect unauthorized modification (including changes, additions, and deletions) of critical system files, configuration files, or content files?   *Examples of files that should be monitored include:*   * *System executables* * *Application executables* * *Configuration and parameter files* * *Centrally stored, historical or archived, log, and audit files* * *Additional critical files determined by entity (for example, through risk assessment or other means)* | | * Observe system settings and monitored files. * Examine system configuration settings. |  |  |  |  |
| 11.5 *(cont.)* | 1. Is the change-detection mechanism configured to alert personnel to unauthorized modification (including changes, additions, and deletions) of critical system files, configuration files or content files, and do the tools perform critical file comparisons at least weekly?   **Note:** For change detection purposes, critical files are usually those that do not regularly change, but the modification of which could indicate a system compromise or risk of compromise. Change detection mechanisms such as file-integrity monitoring products usually come pre-configured with critical files for the related operating system. Other critical files, such as those for custom applications, must be evaluated and defined by the entity (that is the merchant or service provider). | | * Observe system settings and monitored files. * Review results from monitoring activities. |  |  |  |  |
| 11.5.1 | Is a process in place to respond to any alerts generated by the change-detection solution? | | * Examine system configuration settings. |  |  |  |  |

## Maintain an Information Security Policy

### Requirement 12: Maintain a policy that addresses information security for all personnel

***Note:*** *For the purposes of Requirement 12, “personnel” refers to full-time part-time employees, temporary employees and personnel, and contractors and consultants who are “resident” on the entity’s site or otherwise have access to the company’s site cardholder data environment.*

| **PCI DSS Question** | | **Expected Testing** | **Response**  *(Check one response for each question)* | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Yes** | **Yes with CCW** | **No** | **N/A** |
| 12.1 | Is a security policy established, published, maintained, and disseminated to all relevant personnel? | * Review the information security policy. |  |  |  |  |
| 12.1.1 | Is the security policy reviewed at least annually and updated when the environment changes? | * Review the information security policy. * Interview responsible personnel. |  |  |  |  |
| 12.4 | Do security policy and procedures clearly define information security responsibilities for all personnel? | * Review information security policy and procedures. * Interview a sample of responsible personnel. |  |  |  |  |
| 12.5 | 1. Are the following information security management responsibilities formally assigned to an individual or team: |  |  |  |  |  |
| 12.5.3 | Establishing, documenting, and distributing security incident response and escalation procedures to ensure timely and effective handling of all situations? | * Review information security policy and procedures. |  |  |  |  |
| 12.6 | 1. Is a formal security awareness program in place to make all personnel aware of the cardholder data security policy and procedures? | * Review security awareness program. |  |  |  |  |
| 12.8 | Are policies and procedures maintained and implemented to manage service providers with whom cardholder data is shared, or that could affect the security of cardholder data, as follows: |  |  |  |  |  |
| 12.8.1 | Is a list of service providers maintained, including a description of the service(s) provided? | * Review policies and procedures. * Observe processes. * Review list of service providers. |  |  |  |  |
| 12.8.2 | Is a written agreement maintained that includes an acknowledgement that the service providers are responsible for the security of cardholder data the service providers possess or otherwise store, process, or transmit on behalf of the customer, or to the extent that they could impact the security of the customer’s cardholder data environment?  **Note:** The exact wording of an acknowledgement will depend on the agreement between the two parties, the details of the service being provided, and the responsibilities assigned to each party. The acknowledgement does not have to include the exact wording provided in this requirement. | * Observe written agreements. * Review policies and procedures. |  |  |  |  |
| 12.8.3 | Is there an established process for engaging service providers, including proper due diligence prior to engagement? | * Observe processes. * Review policies and procedures and supporting documentation. |  |  |  |  |
| 12.8.4 | Is a program maintained to monitor service providers’ PCI DSS compliance status at least annually? | * Observe processes. * Review policies and procedures and supporting documentation. |  |  |  |  |
| 12.8.5 | Is information maintained about which PCI DSS requirements are managed by each service provider, and which are managed by the entity? | * Observe processes. * Review policies and procedures and supporting documentation. |  |  |  |  |
| 12.10.1 | 1. Has an incident response plan been created to be implemented in the event of system breach? | * Review the incident response plan. * Review incident response plan procedures. |  |  |  |  |
|  | 1. Does the plan address the following, at a minimum: |  |  |  |  |  |
|  | * Roles, responsibilities, and communication and contact strategies in the event of a compromise including notification of the payment brands, at a minimum? | * Review incident response plan procedures. |  |  |  |  |
|  | * Specific incident response procedures? | * Review incident response plan procedures. |  |  |  |  |
|  | * Business recovery and continuity procedures? | * Review incident response plan procedures. |  |  |  |  |
|  | * Data backup processes? | * Review incident response plan procedures. |  |  |  |  |
|  | * Analysis of legal requirements for reporting compromises? | * Review incident response plan procedures. |  |  |  |  |
|  | * Coverage and responses of all critical system components? | * Review incident response plan procedures. |  |  |  |  |
|  | * Reference or inclusion of incident response procedures from the payment brands? | * Review incident response plan procedures. |  |  |  |  |

## Appendix A: Additional PCI DSS Requirements

### Appendix A1: Additional PCI DSS Requirements for Shared Hosting Providers

This appendix is not used for merchant assessments.

### Appendix A2: Additional PCI DSS Requirements for Entities using SSL/Early TLS for Card-Present POS POI Terminal Connections

| **PCI DSS Question** | | **Expected Testing** | **Response**  *(Check one response for each question)* | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Yes** | **Yes with CCW** | **No** | **N/A** |
| A2.1 | *For POS POI terminals (****at the merchant or payment-acceptance location****) using SSL and/or early TLS:* Are the devices confirmed to not be susceptible to any known exploits for SSL/early TLS?  Note: This requirement is intended to apply to the entity with the POS POI terminal, such as a merchant. This requirement is not intended for service providers who serve as the termination or connection point to those POS POI terminals. Requirements A2.2 and A2.3 apply to POS POI service providers. | * Review documentation (for example, vendor documentation, system/network configuration details, etc.) that verifies POS POI devices are not susceptible to any known exploits for SSL/early TLS. |  |  |  |  |

### 

### Appendix A3: Designated Entities Supplemental Validation (DESV)

This Appendix applies only to entities designated by a payment brand(s) or acquirer as requiring additional validation of existing PCI DSS requirements. Entities required to validate to this Appendix should use the DESV Supplemental Reporting Template and Supplemental Attestation of Compliance for reporting, and consult with the applicable payment brand and/or acquirer for submission procedures.

## Appendix B: Compensating Controls Worksheet

*Use this worksheet to define compensating controls for any requirement where “YES with CCW” was checked.*

***Note:*** *Only companies that have undertaken a risk analysis and have legitimate technological or documented business constraints can consider the use of compensating controls to achieve compliance.*

*Refer to Appendices B, C, and D of PCI DSS for information about compensating controls and guidance on how to complete this worksheet.*

**Requirement Number and Definition:**

|  |  |  |
| --- | --- | --- |
|  | **Information Required** | **Explanation** |
| 1. **Constraints** | List constraints precluding compliance with the original requirement. |  |
| 1. **Objective** | Define the objective of the original control; identify the objective met by the compensating control. |  |
| 1. **Identified Risk** | Identify any additional risk posed by the lack of the original control. |  |
| 1. **Definition of Compensating Controls** | Define the compensating controls and explain how they address the objectives of the original control and the increased risk, if any. |  |
| 1. **Validation of Compensating Controls** | Define how the compensating controls were validated and tested. |  |
| 1. **Maintenance** | Define process and controls in place to maintain compensating controls. |  |

## Appendix C: Explanation of Non-Applicability

*If the “N/A” (Not Applicable) column was checked in the questionnaire, use this worksheet to explain why the related requirement is not applicable to your organization.*

|  |  |
| --- | --- |
| **Requirement** | **Reason Requirement is Not Applicable** |
| *Example:* | |
| 3.4 | Cardholder data is never stored electronically | |
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Section 3: Validation and Attestation Details

|  |
| --- |
| **Part 3. PCI DSS Validation** |

**This AOC is based on results noted in SAQ A-EP (Section 2), dated *(SAQ completion date).***

Based on the results documented in the SAQ A-EP noted above, the signatories identified in Parts 3b-3d, as applicable, assert(s) the following compliance status for the entity identified in Part 2 of this document: (***check one):***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Compliant:** All sections of the PCI DSS SAQ are complete, all questions answered affirmatively, resulting in an overall **COMPLIANT** rating; thereby *(Merchant Company Name)* has demonstrated full compliance with the PCI DSS. | | | |
|  | **Non-Compliant:** Not all sections of the PCI DSS SAQ are complete, or not all questions are answered affirmatively, resulting in an overall **NON-COMPLIANT** rating, thereby *(Merchant Company Name)* has not demonstrated full compliance with the PCI DSS.  **Target Date** for Compliance:  An entity submitting this form with a status of Non-Compliant may be required to complete the Action Plan in Part 4 of this document. *Check with your acquirer or the payment brand(s) before completing Part 4.* | | | |
|  | **Compliant but with Legal exception:** One or more requirements are marked “No” due to a legal restriction that prevents the requirement from being met. This option requires additional review from acquirer or payment brand.  *If checked, complete the following:* | | | |
|  | Affected Requirement | Details of how legal constraint prevents requirement being met |  |
|  |  |  |
|  |  |
|  | | |

|  |  |
| --- | --- |
| Part 3a. Acknowledgement of Status | |
| **Signatory(s) confirms:**  ***(Check all that apply)*** | |
|  | PCI DSS Self-Assessment Questionnaire A-EP, Version *(version of SAQ)*, was completed according to the instructions therein. |
|  | All information within the above-referenced SAQ and in this attestation fairly represents the results of my assessment in all material respects. |
|  | I have confirmed with my payment application vendor that my payment system does not store sensitive authentication data after authorization. |
|  | I have read the PCI DSS and I recognize that I must maintain PCI DSS compliance, as applicable to my environment, at all times. |
|  | If my environment changes, I recognize I must reassess my environment and implement any additional PCI DSS requirements that apply. |
| **Part 3. PCI DSS Validation** *(continued)* | |
| Part 3a. Acknowledgement of Status (continued) | |
|  | No evidence of full track data[[1]](#footnote-1), CAV2, CVC2, CID, or CVV2 data[[2]](#footnote-2), or PIN data[[3]](#footnote-3) storage after transaction authorization was found on ANY system reviewed during this assessment. |
|  | ASV scans are being completed by the PCI SSC Approved Scanning Vendor *(ASV Name)* |

|  |  |
| --- | --- |
| Part 3b. Merchant Attestation | |
|  | |
| Signature of Merchant Executive Officer 🡩 | Date: |
| Merchant Executive Officer Name: | Title: |

|  |  |  |
| --- | --- | --- |
| Part 3c. Qualified Security Assessor (QSA) Acknowledgement (if applicable) | | |
| If a QSA was involved or assisted with this assessment, describe the role performed: |  | |
|  | | |
| Signature of Duly Authorized Officer of QSA Company 🡩 | | Date: |
| Duly Authorized Officer Name: | | QSA Company: |

|  |  |
| --- | --- |
| Part 3d. Internal Security Assessor (ISA) Involvement (if applicable) | |
| If an ISA(s) was involved or assisted with this assessment, identify the ISA personnel and describe the role performed: |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Part 4. Action Plan for Non-Compliant Requirements | | | | | |
| Select the appropriate response for “Compliant to PCI DSS Requirements” for each requirement. If you answer “No” to any of the requirements, you may be required to provide the date your Company expects to be compliant with the requirement and a brief description of the actions being taken to meet the requirement.  *Check with your acquirer or the payment brand(s) before completing Part 4.* | | | | | |
| **PCI DSS Requirement\*** | **Description of Requirement** | **Compliant to PCI DSS Requirements**  (Select One) | | **Remediation Date and Actions** (If “NO” selected for any Requirement) |
| **YES** | **NO** |
| 1 | Install and maintain a firewall configuration to protect cardholder data. |  |  |  |
| 2 | Do not use vendor-supplied defaults for system passwords and other security parameters. |  |  |  |
| 3 | Protect stored cardholder data. |  |  |  |
| 4 | Encrypt transmission of cardholder data across open, public networks. |  |  |  |
| 5 | Protect all systems against malware and regularly update anti-virus software or programs. |  |  |  |
| 6 | Develop and maintain secure systems and applications. |  |  |  |
| 7 | Restrict access to cardholder data by business need to know. |  |  |  |
| 8 | Identify and authenticate access to system components. |  |  |  |
| 9 | Restrict physical access to cardholder data. |  |  |  |
| 10 | Track and monitor all access to network resources and cardholder data. |  |  |  |
| 11 | Regularly test security systems and processes. |  |  |  |
| 12 | Maintain a policy that addresses information security for all personnel. |  |  |  |
| Appendix A2 | Additional PCI DSS Requirements for Entities using SSL/Early TLS for Card-Present POS POI Terminal Connections. |  |  |  |

*\* PCI DSS Requirements indicated here refer to the questions in Section 2 of the SAQ.*



1. Data encoded in the magnetic stripe or equivalent data on a chip used for authorization during a card-present transaction. Entities may not retain full track data after transaction authorization. The only elements of track data that may be retained are primary account number (PAN), expiration date, and cardholder name. [↑](#footnote-ref-1)
2. The three- or four-digit value printed by the signature panel or on the face of a payment card used to verify card-not-present transactions. [↑](#footnote-ref-2)
3. Personal identification number entered by cardholder during a card-present transaction, and/or encrypted PIN block present within the transaction message. [↑](#footnote-ref-3)