Payment Card Industry (PCI) Data Security Standard
Report on Compliance

PCI DSS v3.2.1 Template for Report on Compliance

Revision 1.0

June 2018

Document Changes

Date	Version	Description
February 2014	PCI DSS 3.0, Revision1.0	To introduce the template for submitting Reports on Compliance. *This document is intended for use with version 3.0 of the PCI Data Security Standard.*
July 2014	PCI DSS 3.0, Revision 1.1	Errata - Minor edits made to address typos and general errors, slight addition of content
April 2015	PCI DSS 3.1, Revision1.0	Revision to align with changes from PCI DSS 3.0 to PCI DSS 3.1 (see *PCI DSS – Summary of Changes from PCI DSS Version 3.0 to 3.1* for details of those changes). Also includes minor edits made for clarification and/or format.
April 2016	PCI DSS 3.2, Revision 1.0	Revision to align with changes from PCI DSS 3.1 to PCI DSS 3.2 (see *PCI DSS – Summary of Changes from PCI DSS Version 3.1 to 3.2* for details of those changes). Also includes minor corrections and edits made for clarification and/or format.
June 2018	PCI DSS 3.2.1 Revision 1.0	Revision to align with changes from PCI DSS 3.2 to PCI DSS 3.2.1 (see *PCI DSS – Summary of Changes from PCI DSS Version 3.2 to 3.2.1* for details of changes). Also includes minor corrections and edits made for clarification and/or format.

Table of Contents

Introduction to the ROC Template

This document, the *PCI DSS Template for Report on Compliance for use with PCI DSS v3.2.1, Revision 1.0* ("ROC Reporting Template"), is the mandatory template for Qualified Security Assessors (QSAs) completing a Report on Compliance (ROC) for assessments against the *PCI DSS Requirements and Security Assessment Procedures v3.2.1.* The ROC Reporting Template provides reporting instructions and the template for QSAs to use. This can help provide reasonable assurance that a consistent level of reporting is present among assessors.

Use of this Reporting Template is mandatory for all v3.2.1 submissions.

Tables have been included in this template to facilitate the reporting process for certain lists and other information as appropriate. The tables in this template may be modified to increase/decrease the number of rows, or to change column width. Additional appendices may be added if the assessor feels there is relevant information to be included that is not addressed in the current format. However, the assessor must not remove any details from the tables provided in this document. Personalization, such as the addition of company logos, is acceptable.

Do not delete any content from any place in this document, including this section and the versioning above. These instructions are important for the assessor as the report is written and for the recipient in understanding the context the responses and conclusions are made. Addition of text or sections is applicable within reason, as noted above. Refer to the "Frequently Asked Questions for use with ROC Reporting Template for PCI DSS v3.x" document on the PCI SSC website for further guidance.

The Report on Compliance (ROC) is produced during onsite PCI DSS assessments as part of an entity's validation process. The ROC provides details about the entity's environment and assessment methodology, and documents the entity's compliance status for each PCI DSS Requirement. A PCI DSS compliance assessment involves thorough testing and assessment activities, from which the assessor will generate detailed work papers. These work papers contain comprehensive records of the assessment activities, including observations, results of system testing, configuration data, file lists, interview notes, documentation excerpts, references, screenshots, and other evidence collected during the course of the assessment. The ROC is effectively a *summary of evidence* derived from the assessor's work papers to describe how the assessor performed the validation activities and how the resultant findings were reached. At a high level, the ROC provides a comprehensive *summary of testing activities performed and information collected* during the assessment against the *PCI DSS Requirements and Security Assessment Procedures v3.2.1*. The information contained in a ROC must provide enough detail and coverage to verify that the assessed entity is compliant with all PCI DSS requirements.

ROC Sections

The ROC includes the following sections and appendices:

- Section 1: Contact Information and Report Date
- Section 2: Summary Overview
- Section 3: Description of Scope of Work and Approach Taken
- Section 4: Details about Reviewed Environment
- Section 5: Quarterly Scan Results
- Section 6: Findings and Observations

- Appendix A: Additional PCI DSS Requirements

- Appendices B and C: Compensating Controls and Compensating Controls Worksheet (as applicable)

- Appendix D: Segmentation and Sampling of Business Facilities/System Components (diagram)

The first five sections must be thoroughly and accurately completed, in order for the assessment findings in Section 6 and any applicable responses in the Appendices to have the proper context. The Reporting Template includes tables with Reporting Instructions built-in to help assessors provide all required information throughout the document. Responses should be specific, but efficient. Details provided should focus on concise quality of detail, rather than lengthy, repeated verbiage. Parroting the testing procedure within a description is discouraged, as it does not add any level of assurance to the narrative. Use of template language for summaries and descriptions is discouraged and details should be specifically relevant to the assessed entity.

ROC Summary of Assessor Findings

With the Reporting Template, an effort was made to efficiently use space, and as such, there is one response column for results/evidence ("ROC Reporting Details: Assessor's Response") instead of three. Additionally, the results for "Summary of Assessor Findings" were expanded to more effectively represent the testing and results that took place, which should be aligned with the Attestation of Compliance (AOC).

There are now five results possible – In Place, In Place with CCW (Compensating Control Worksheet), Not Applicable, Not Tested, and Not in Place. At each sub-requirement there is a place to designate the result ("Summary of Assessor Findings"), which can be checked as appropriate. See the example format on the following page, as referenced.

The following table is a helpful representation when considering which selection to make. Remember, only one response should be selected at the sub-requirement level, and reporting of that should be consistent with other required documents, such as the AOC.

Refer to the "Frequently Asked Questions for use with ROC Reporting Template for PCI DSS v3.x" document on the PCI SSC website for further guidance.

RESPONSE	WHEN TO USE THIS RESPONSE:	USING THE SAMPLE BELOW:
In Place	The expected testing has been performed, and all elements of the requirement have been met as stated.	*In the sample, the Summary of Assessment Findings at 1.1 is "in place" if all report findings are in place for 1.1.a and 1.1.b or a combination of in place and not applicable.*

RESPONSE	WHEN TO USE THIS RESPONSE:	USING THE SAMPLE BELOW:
In Place w/ 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) Information on the use of compensating controls and guidance on how to complete the worksheet is provided in the PCI DSS.	*In the sample, the Summary of Assessment Findings at 1.1 is "in place with CCW" if all report findings are in place for 1.1.a and 1.1.b with the use of a CCW for one or both (completed at the end of the report) or a combination of in place with CCW and not applicable.*
Not in Place	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.	*In the sample, the Summary of Assessment Findings at 1.1 is "not in place" if either 1.1.a or 1.1.b are concluded to be "not in place."*
N/A (Not Applicable)	The requirement does not apply to the organization's environment. All "not applicable" responses require reporting on testing performed to confirm the "not applicable" status. Note that a "Not Applicable" response still requires a detailed description explaining how it was determined that the requirement does not apply. In scenarios where the Reporting Instruction states, "If 'no/yes', mark as Not Applicable," assessors may simply enter "Not Applicable" or "N/A" and are not required to report on the testing performed to confirm the "Not Applicable" status. **Certain requirements are always applicable (3.2.1-3.2.3, for example), and that will be designated by a grey box under "Not Applicable."**	*In the sample, the Summary of Assessment Findings at 1.1 is "not applicable" if both 1.1.a and 1.1.b are concluded to be "not applicable." A requirement is applicable if any aspects of the requirement apply to the environment being assessed, and a "Not Applicable" designation in the Summary of Assessment Findings should not be used in this scenario.* ***Note, future-dated requirements are considered Not Applicable until the future date has passed. While it is true that the requirement is likely not tested (hence the original instructions), it is not required to be tested until the future date has passed, and the requirement is therefore not applicable until that date. As such, a "Not Applicable" response to future-dated requirements is accurate, whereas a "Not Tested" response would imply there was not any consideration as to whether it could apply (and be perceived as a partial or incomplete ROC).* *Once the future date has passed, responses to those requirements should be consistent with instructions for all requirements.*

RESPONSE	WHEN TO USE THIS RESPONSE:	USING THE SAMPLE BELOW:
Not Tested	The requirement (or any single aspect of the requirement) was not included for consideration in the assessment and was not tested in any way. (See "What is the difference between 'Not Applicable' and 'Not Tested'?" in the following section for examples of when this option should be used.)	*In the sample, the Summary of Assessment Findings at 1.1 is "not tested" if either 1.1.a or 1.1.b are concluded to be "not tested."*

What is the difference between "Not Applicable" and "Not Tested?"

Requirements that are deemed to be not applicable to an environment must be verified as such. Using the example of wireless and an organization that does not use wireless technology in any capacity, an assessor could select "N/A" for Requirements 1.2.3, 2.1.1, and 4.1.1, after the assessor confirms that there are no wireless technologies used in their CDE or that connect to their CDE via assessor testing. Once this has been confirmed, the organization may select "N/A" for those specific requirements, and the accompanying reporting must reflect the testing performed to confirm the not applicable status.

If a requirement is completely excluded from review without any consideration as to whether it could apply, the "Not Tested" option should be selected. Examples of situations where this could occur may include:

- An organization may be asked by their acquirer to validate a subset of requirements—for example: using the prioritized approach to validate certain milestones.

- An organization may wish to validate a new security control that impacts only a subset of requirements—for example, implementation of a new encryption methodology that requires assessment of PCI DSS Requirements 2, 3, and 4.

- A service provider organization might offer a service that covers only a limited number of PCI DSS requirements—for example, a physical storage provider may only wish to validate the physical security controls per PCI DSS Requirement 9 for their storage facility.

In these scenarios, the organization only wishes to validate certain PCI DSS requirements even though other requirements might also apply to their environment. Compliance is determined by the brands and acquirers, and the AOCs they see will be clear in what was tested and not tested. They will decide whether to accept a ROC with something "not tested," and the QSA should speak with them if any exception like this is planned. This should not change current practice, just reporting.

Requirement X: Sample

Note – checkboxes have been added to the "Summary of Assessment Findings" so that the assessor may double click to check the applicable summary result. Hover over the box you'd like to mark and click once to mark with an 'x'. To remove a mark, hover over the box and click again.

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place with CCW	Not Applicable	Not Tested	Not in Place
1.1 Sample sub-requirement			☐	☐	☐	☐	☐
1.1.a Sample testing procedure	Reporting Instruction	*<Report Findings Here>*					
1.1.b Sample testing procedure	Reporting Instruction	*<Report Findings Here>*					

ROC Reporting Details

The reporting instructions in the Reporting Template explain the intent of the response required. There is no need to repeat the testing procedure or the reporting instruction within each assessor response. As noted earlier, responses should be specific and relevant to the assessed entity. Details provided should focus on concise quality of detail, rather than lengthy, repeated verbiage and should avoid parroting of the testing procedure without additional detail or generic template language.

Assessor responses will generally fall into categories such as the following:

- One word **(yes/no)**

  *Example Reporting Instruction: **Indicate whether** the assessed entity is an issuer or supports issuing services. **(yes/no)***

- Document name or interviewee job title/reference – In Sections 4.9, "Documentation Reviewed," and 4.10, "Individuals Interviewed" below, there is a space for a reference number and *it is the QSA's choice* to use the document name/interviewee job title or the reference number at the individual reporting instruction response.

  *Example Reporting Instruction: **Identify** the document that defines vendor software development processes.*
  *Example Reporting Instruction: **Identify the individuals** interviewed who confirm that …*

- Sample description – For sampling, the QSA must use the table at "Sample sets for reporting" in the Details about Reviewed Environment section of this document to fully report the sampling, but *it is the QSA's choice* to use the Sample set reference number ("Sample Set-5") or list out the items from the sample again at the individual reporting instruction response. If sampling is not used, then the types of components that were tested must still be identified in Section 6 Findings and Observations. This may be accomplished by either using Sample Set Reference numbers or by listing the tested items individually in the response.

  *Example Reporting Instruction: **Identify the sample** of removable media observed.*

- Brief description/short answer – Short and to the point, but provide detail and individual content that is not simply an echoing of the testing procedure or reporting instruction nor a template answer used from report-to-report, but instead relevant and specific to the assessed entity. These responses must include unique details, such as the specific system configurations reviewed (to include what the assessor observed in the configurations) and specific processes observed (to include a summary of what was witnessed and how that verified the criteria of the testing

procedure). It is not enough to simply state that it was verified. Responses must go beyond that and include details regarding *how* a requirement is in place.

*Example Reporting Instruction: **Describe** the procedures for secure key distribution that were observed to be implemented.*
*Example Reporting Instruction: For the interview, **summarize the relevant details** discussed that verify …*

Dependence on another service provider's compliance:

Generally, when reporting on a requirement where a third-party service provider is responsible for the tasks, an acceptable response for an "in place" finding may be something like:

*"Assessor verified this is the responsibility of Service Provider X, as verified through review of x/y contract (document). Assessor reviewed the AOC for Service Provider X, dated MM/DD/YYYY, and confirmed the service provider was found to be PCI DSS compliant **against PCI DSS v3.2 (or PCI DSS v3.2.1)** for all applicable requirements, and that it covers the scope of the services used by the assessed entity."*

That response could vary, but what's important is that it is noted as "in place" and that there has been a level of testing by the assessor to support the conclusion that this responsibility is verified and that the responsible party has been tested against the requirement and found to be compliant.

Do's and Don'ts: Reporting Expectations

DO:	DON'T:
▪ Use this Reporting Template when assessing against v3.2.1 of the PCI DSS.	▪ Don't report items in the "In Place" column unless they have been verified as being "in place" as stated.
▪ Complete all sections in the order specified.	▪ Don't include forward-looking statements or project plans in the "In Place" assessor response.
▪ Read and understand the intent of each Requirement and Testing Procedure.	▪ Don't simply repeat or echo the Testing Procedure in the response.
▪ Provide a response for every Testing Procedure.	▪ Don't copy responses from one Testing Procedure to another.
▪ Provide sufficient detail and information to support the designated finding, but be concise.	▪ Don't copy responses from previous assessments.
▪ Describe *how* a Requirement is in place per the Reporting Instruction, not just that it *was* verified.	▪ Don't include information irrelevant to the assessment.
▪ Ensure the parts of the Testing Procedure and Reporting Instruction are addressed.	▪ Don't leave any spaces blank. If a section does not apply, annotate it as such.
▪ Ensure the response covers all applicable system components.	
▪ Perform an internal quality assurance review of the ROC for clarity, accuracy, and quality.	
▪ Provide useful, meaningful diagrams, as directed.	

ROC Template for PCI Data Security Standard v3.2.1

This template is to be used for creating a Report on Compliance. Content and format for a ROC is defined as follows:

1. Contact Information and Report Date

1.1 Contact information

Client	
▪ Company name:	
▪ Company address:	
▪ Company URL:	
▪ Company contact name:	
▪ Contact phone number:	
▪ Contact e-mail address:	
Assessor Company	
▪ Company name:	
▪ Company address:	
▪ Company website:	
Assessor	
▪ Lead Assessor name:	
▪ Assessor PCI credentials: (QSA, PA-QSA, etc.)	
▪ Assessor phone number:	
▪ Assessor e-mail address:	
▪ List all other assessors involved in the assessment. If there were none, mark as Not Applicable. (add rows as needed)	
Assessor name:	Assessor PCI credentials: (QSA, PA-QSA, etc.)
▪ List all Associate QSAs involved in the assessment. If there were none, mark as Not Applicable. (add rows as needed)	
Associate QSA name:	Associate QSA mentor name:

Assessor Quality Assurance (QA) Primary Reviewer for this specific report (not the general QA contact for the QSA)	
▪ QA reviewer name:	
▪ QA reviewer phone number:	
▪ QA reviewer e-mail address:	

1.2 Date and timeframe of assessment

▪ Date of Report:	
▪ Timeframe of assessment (start date to completion date):	
▪ Identify date(s) spent onsite at the entity:	
▪ Describe the time spent onsite at the entity, time spent performing remote assessment activities and time spent on validation of remediation activities.	

1.3 PCI DSS version

▪ Version of the PCI Data Security Standard used for the assessment (should be 3.2.1):	

1.4 Additional services provided by QSA company

The PCI SSC Qualification Requirements for Qualified Security Assessors (QSA) v3.0 includes content on "Independence," which specifies requirements for assessor disclosure of services and/or offerings that could reasonably be viewed to affect independence of assessment. Complete the below after review of relevant portions of the Qualification Requirements document(s) to ensure responses are consistent with documented obligations.

▪ Disclose all services offered to the assessed entity by the QSAC, including but not limited to whether the assessed entity uses any security-related devices or security-related applications that have been developed or manufactured by the QSA, or to which the QSA owns the rights or that the QSA has configured or manages:	
▪ Describe efforts made to ensure no conflict of interest resulted from the above mentioned services provided by the QSAC:	

1.5 Summary of Findings

PCI DSS Requirement	Summary of Findings (check one)			
	Compliant	**Non-Compliant**	**Not Applicable**	**Not Tested**
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 A1: Additional PCI DSS Requirements for Shared Hosting Providers	☐	☐	☐	☐
Appendix A2: Additional PCI DSS Requirements for Entities Using SSL/Early TLS for Card-Present POS POI Terminal Connections	☐	☐	☐	☐
Appendix A3: Designated Entities Supplemental Validation	☐	☐	☐	☐

2. Summary Overview

2.1 Description of the entity's payment card business

Provide an overview of the entity's payment card business, including:

▪ Describe the nature of the entity's business (what kind of work they do, etc.) ***Note:*** *This is not intended to be a cut-and-paste from the entity's website, but should be a tailored description that shows the assessor understands the business of the entity being assessed.*	
▪ Describe how the entity stores, processes, and/or transmits cardholder data. ***Note:*** *This is not intended to be a cut-and-paste from above, but should build on the understanding of the business and the impact this can have upon the security of cardholder data.*	
▪ Describe why the entity stores, processes, and/or transmits cardholder data. ***Note:*** *This is not intended to be a cut-and-paste from above, but should build on the understanding of the business and the impact this can have upon the security of cardholder data.*	
▪ Identify the types of payment channels the entity serves, such as card-present and card-not-present (for example, mail order/telephone order (MOTO), e-commerce).	
▪ Other details, if applicable:	

2.2 High-level network diagram(s)

Provide a ***high-level*** network diagram (either obtained from the entity or created by assessor) of the entity's networking topography, showing the overall architecture of the environment being assessed. This high-level diagram should summarize all locations and key systems, and the boundaries between them and should include the following:

- ▪ Connections into and out of the network including demarcation points between the cardholder data environment (CDE) and other networks/zones

- ▪ Critical components within the cardholder data environment, including POS devices, systems, databases, and web servers, as applicable

- ▪ Other necessary payment components, as applicable

<Insert high-level network diagram(s)>
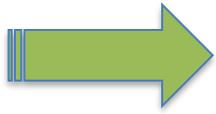
3. Description of Scope of Work and Approach Taken

3.1 Assessor's validation of defined cardholder data environment and scope accuracy

Document how the assessor validated the accuracy of the defined CDE/PCI DSS scope for the assessment, including:

As noted in PCI DSS, v3.2.1 – "At least annually and prior to the annual assessment, the assessed entity should confirm the accuracy of their PCI DSS scope by identifying all locations and flows of cardholder data, and identify all systems that are connected to or if compromised could impact the CDE (e.g. authentication servers) to ensure they are included in the PCI DSS scope."

Note – additional reporting has been added below to emphasize systems that are connected to or if compromised could impact the CDE.

▪ Describe the methods or processes (for example, the specific types of tools, observations, feedback, scans, data flow analysis) used to identify and document all existences of cardholder data (as executed by the assessed entity, assessor or a combination):	
▪ Describe the methods or processes (for example, the specific types of tools, observations, feedback, scans, data flow analysis) used to verify that no cardholder data exists outside of the defined CDE (as executed by the assessed entity, assessor or a combination):	
▪ Describe how the results of the methods/processes were documented (for example, the results may be a diagram or an inventory of cardholder data locations):	
▪ Describe how the results of the methods/processes were evaluated by the assessor to verify that the PCI DSS scope of review is appropriate: *Note – the response must go beyond listing the activities that the assessor performed to evaluate the results of the methods/processes; the assessor must also include details regarding the results of the outcome of those activities that gave the assessor the level of assurance that the scope is appropriate.*	
▪ Describe why the methods (for example, tools, observations, feedback, scans, data flow analysis, or any environment design decisions that were made to help limit the scope of the environment) used for scope verification are considered by the assessor to be effective and accurate:	
▪ Provide the name of the assessor who attests that the defined CDE and scope of the assessment has been verified to be accurate, to the best of the assessor's ability and with all due diligence:	
▪ Other details, if applicable:	

3.2 Cardholder Data Environment (CDE) overview

Provide an overview of the cardholder data environment encompassing the people, processes, technologies, and locations (for example, client's Internet access points, internal corporate network, processing connections).

▪ People – such as technical support, management, administrators, operations teams, cashiers, telephone operators, physical security, etc.: *Note – this is not intended to be a list of individuals interviewed, but instead a list of the types of people, teams, etc. who were included in the scope.*	
▪ Processes – such as payment channels, business functions, etc.:	
▪ Technologies – such as e-commerce systems, internal network segments, DMZ segments, processor connections, POS systems, encryption mechanisms, etc.: *Note – this is not intended to be a list of devices but instead a list of the types of technologies, purposes, functions, etc. included in the scope.*	
▪ Locations/sites/stores – such as retail outlets, data centers, corporate office locations, call centers, etc.:	
▪ Other details, if applicable:	

3.3 Network segmentation

▪ Identify whether the assessed entity has used network segmentation to reduce the scope of the assessment. **(yes/no)** *Note -- An environment with no segmentation is considered a "flat" network where all systems are considered in scope due to a lack of segmentation.*	
▪ *If segmentation is not used:* Provide the name of the assessor who attests that the whole network has been included in the scope of the assessment.	
▪ *If segmentation is used:* Briefly describe how the segmentation is implemented.	
– Identify the technologies used and any supporting processes	
– Explain how the assessor validated the effectiveness of the segmentation, as follows:	
– Describe the methods used to validate the effectiveness of the segmentation (for example, observed configurations of implemented technologies, tools used, network traffic analysis, etc.).	
– Describe how it was verified that the segmentation is functioning as intended	

Note – *the response must go beyond listing the activities that the assessor performed and must provide specific details regarding how segmentation is functioning as intended.*	
– Identify the security controls that are in place to ensure the integrity of the segmentation mechanisms (e.g., access controls, change management, logging, monitoring, etc.).	
– Describe how it was verified that the identified security controls are in place ***Note*** *– the response must go beyond listing the activities that the assessor performed and must provide specific details of what the assessor observed to get the level of assurance that the identified security controls are in place.*	
▪ Provide the name of the assessor who attests that the segmentation was verified to be adequate to reduce the scope of the assessment AND that the technologies/processes used to implement segmentation were included in the PCI DSS assessment.	

3.4 Network segment details

Describe all networks that store, process and/or transmit CHD:

Network Name (in scope)	Function/ Purpose of Network

Describe all networks that do not store, process and/or transmit CHD, but are still in scope (e.g., connected to the CDE or provide management functions to the CDE):

Network Name (in scope)	Function/ Purpose of Network

Describe any networks confirmed to be out of scope:

Network Name (out of scope)	Function/ Purpose of Network

3.5 Connected entities for payment processing and transmission

Complete the following for connected entities for processing and/or transmission. If the assessor needs to include additional reporting for the specific brand and/or acquirer, it can be included either here within 3.5 or as an appendix at the end of this report. Do not alter the Attestation of Compliance (AOC) for this purpose.

Identify All Processing and Transmitting Entities (i.e. Acquirer/ Bank/ Brands)	Directly Connected? (yes/no)	Reason(s) for Connection:		Description of any discussions/issues between the QSA and Processing Entity on behalf of the Assessed Entity for this PCI DSS Assessment (if any)
		Processing	**Transmission**	
		☐	☐	
		☐	☐	
		☐	☐	

| ▪ Other details, if applicable (add content or tables here for brand/acquirer use, if needed): | |

3.6 Other business entities that require compliance with the PCI DSS

Entities wholly owned by the assessed entity that are required to comply with PCI DSS:
(This may include subsidiaries, different brands, DBAs, etc.)

Wholly Owned Entity Name	Reviewed:	
	As part of this assessment	**Separately**

International entities owned by the assessed entity that are required to comply with PCI DSS:

List all countries where the entity conducts business. (If there are no international entities, then the country where the assessment is occurring should be included at a minimum.)	Country

International Entity Name	Facilities in this country reviewed:	
	As part of this assessment	**Separately**

3.7 Wireless summary

▪ Indicate whether there are wireless networks or technologies in use (in or out of scope), **(yes/no)**	
If "no," describe how the assessor verified that there are no wireless networks or technologies in use.	

If "yes," indicate whether wireless is in scope (i.e. part of the CDE, connected to or could impact the security of the cardholder data environment), **(yes/no)**:
 	
This would include:
  – Wireless LANs
  – Wireless payment applications (for example, POS terminals)
  – All other wireless devices/technologies	

3.8 Wireless details

For each wireless technology in scope, identify the following:

Identified wireless technology	For each wireless technology in scope, identify the following (yes/no):		
	Whether the technology is used to store, process or transmit CHD	Whether the technology is connected to or part of the CDE	Whether the technology could impact the security of the CDE

Wireless technology not in scope for this assessment:

Identified wireless technology (not in scope)	Describe how the wireless technology was validated by the assessor to be not in scope

4. Details about Reviewed Environment

4.1 Detailed network diagram(s)

Provide one or more *detailed diagrams* to illustrate each communication/connection point between in scope networks/environments/facilities. Diagrams should include the following:

- All boundaries of the cardholder data environment

- Any network segmentation points which are used to reduce scope of the assessment

- Boundaries between trusted and untrusted networks

- Wireless and wired networks

- All other connection points applicable to the assessment

Ensure the diagram(s) include enough detail to clearly understand how each communication point functions and is secured. *(For example, the level of detail may include identifying the types of devices, device interfaces, network technologies, protocols, and security controls applicable to that communication point.)*

<Insert detailed diagram(s)>

4.2 Description of cardholder data flows

Note: The term "Capture" in Section 4.2 of the ROC Template refers to the specific transaction activity, while the use of "capture" in PCI DSS Requirement 9.9 refers to the receiving of cardholder data via physical contact with a payment card (e.g. via swipe or dip).

Cardholder data-flow diagrams may also be included as a supplement to the description of how cardholder data is transmitted and/or processed.

<Insert optional data-flow diagram(s)>

Cardholder data flows	Types of CHD involved (for example, full track, PAN, expiry, etc.)	Describe how cardholder data is transmitted and/or processed and for what purpose it is used (for example, which protocols or technologies were used in each transmission)
Capture		
Authorization		
Settlement		
Chargeback		
Identify all other data flows, as applicable (add rows as needed)		
Other (describe)		
Other details regarding the flow of CHD, if applicable:		

4.3 Cardholder data storage

Identify and list all databases, tables, and files storing post-authorization cardholder data and provide the following details.

Note: The list of files and tables that store cardholder data in the table below must be supported by an inventory created (or obtained from the client) and retained by the assessor in the work papers.

Data Store (database, etc.)	File(s) and/or Table(s)	Cardholder data elements stored (for example, PAN, expiry, Name, any elements of SAD, etc.)	How data is secured (for example, what type of encryption and strength, hashing algorithm and strength, tokenization, access controls, truncation, etc.)	How access to data stores is logged (description of logging mechanism used for logging access to data—for example, describe the enterprise log management solution, application-level logging, operating system logging, etc. in place)

4.4 Critical hardware and software in use in the cardholder data environment

Identify and list all types of hardware and critical software in the cardholder environment. Critical hardware includes network components, servers and other mainframes, devices performing security functions, end-user devices (such as laptops and workstations), virtualized devices (if applicable) and any other critical hardware – including homegrown components. Critical software includes e-commerce applications, applications accessing CHD for non-payment functions (fraud modeling, credit verification, etc.), software performing security functions or enforcing PCI DSS controls, underlying operating systems that store, process or transmit CHD, system management software, virtualization management software, and other critical software – including homegrown software/applications. For each item in the list, provide details for the hardware and software as indicated below. Add rows, as needed.

Critical Hardware			Critical Software		Role/Functionality
Type of Device (for example, firewall, server, IDS, etc.)	**Vendor**	**Make/Model**	**Name of Software Product**	**Version or Release**	

4.5 Sampling

Identify whether sampling was used during the assessment.

▪ If sampling is not used:	
– Provide the name of the assessor who attests that every system component and all business facilities have been assessed.	
▪ If sampling is used:	
– Provide the name of the assessor who attests that all sample sets used for this assessment are represented in the below "Sample sets for reporting" table. *Examples may include, but are not limited to firewalls, application servers, retail locations, data centers, User IDs, people, etc.*	

− Describe the sampling rationale used for selecting sample sizes (for people, processes, technologies, devices, locations/sites, etc.).	
− If standardized PCI DSS security and operational processes/controls were used for selecting sample sizes, describe how they were validated by the assessor.	

4.6 Sample sets for reporting

Note: If sampling is used, this section MUST be completed. When a reporting instruction asks to identify a sample, the QSA may either refer to the Sample Set Reference Number (for example "Sample Set-1") OR list the sampled items individually in the response. Examples of sample sets may include, but are not limited to, firewalls, application servers, retail locations, data centers, User IDs, people, etc. Add rows as needed.

Sample Set Reference Number	Sample Type/ Description (e.g., firewalls, datacenters, change records, User IDs, etc.)	Listing of all items (devices, locations, change records, people, etc.) in the Sample Set	Make/Model of Hardware Components or Version/Release of Software Components	Total Sampled	Total Population
Sample Set-1					
Sample Set-2					
Sample Set-3					
Sample Set-4					

4.7 Service providers and other third parties with which the entity shares cardholder data or that could affect the security of cardholder data

For each service provider or third party, provide:

Note: These entities are subject to PCI DSS Requirement 12.8.

Company Name	What data is shared (for example, PAN, expiry date, etc.)	The purpose for sharing the data (for example, third-party storage, transaction processing, etc.)	Status of PCI DSS Compliance (Date of AOC and version #)

4.8 Third-party payment applications/solutions

Use the table on the following page to identify and list all third-party payment application products and version numbers in use, including whether each payment application has been validated according to PA-DSS or PCI P2PE. Even if a payment application has been PA-DSS or PCI P2PE validated, the assessor still needs to verify that the application has been implemented in a PCI DSS compliant manner and environment, and according to the payment application vendor's *PA-DSS Implementation Guide* for PA-DSS applications *or P2PE Implementation Manual (PIM) and* P2PE application vendor's P2PE Application Implementation Guide for PCI P2PE applications/solutions.

Note: It is not a PCI DSS requirement to use PA-DSS validated applications. Please consult with each payment brand individually to understand their PA-DSS compliance requirements.

*Note: Homegrown payment applications/solutions **must** be reported at the section for Critical Hardware and Critical Software. It is also strongly suggested to address such homegrown payment applications/solutions below at "Any additional comments or findings" in order to represent all payment applications in the assessed environment in this table.*

Name of Third-Party Payment Application/Solution	Version of Product	PA-DSS validated? (yes/no)	P2PE validated? (yes/no)	PCI SSC listing reference number	Expiry date of listing, if applicable
▪ Provide the name of the assessor who attests that all PA-DSS validated payment applications were reviewed to verify they have been implemented in a PCI DSS compliant manner according to the payment application vendor's PA-DSS Implementation Guide					

Name of Third-Party Payment Application/Solution	Version of Product	PA-DSS validated? (yes/no)	P2PE validated? (yes/no)	PCI SSC listing reference number	Expiry date of listing, if applicable
▪ Provide the name of the assessor who attests that all PCI SSC-validated P2PE applications and solutions were reviewed to verify they have been implemented in a PCI DSS compliant manner according to the P2PE application vendor's *P2PE Application Implementation Guide* and the P2PE solution vendor's *P2PE Instruction Manual (PIM).*					
▪ For any of the above Third-Party Payment Applications and/or solutions that are not listed on the PCI SSC website, identify any being considered for scope reduction/exclusion/etc.					
▪ Any additional comments or findings the assessor would like to include, as applicable:					

4.9   Documentation reviewed

Identify and list all reviewed documents. Include the following:

Reference Number (optional)	Document Name (including version, if applicable)	Brief description of document purpose	Document date (latest version date)
Doc-1			
Doc-2			
Doc-3			
Doc-4			
Doc-5			

4.10   Individuals interviewed

Identify and list the individuals interviewed. Include the following:

Reference Number (optional)	Employee Name	Role/Job Title	Organization	Is this person an ISA? (yes/no)
Int-1				
Int-2				
Int-3				
Int-4				

4.11 Managed service providers

For managed service provider (MSP) reviews, the assessor must clearly identify which requirements in this document apply to the MSP (and are included in the review), and which are not included in the review and are the responsibility of the MSP's customers to include in their reviews. Include information about which of the MSP's IP addresses are scanned as part of the MSP's quarterly vulnerability scans, and which IP addresses are the responsibility of the MSP's customers to include in their own quarterly scans:

▪ Identify whether the entity being assessed is a managed service provider. **(yes/no)**	
▪ *If "yes":*	
– List the requirements that apply to the MSP and are included in this assessment.	
– List the requirements that are the responsibility of the MSP's customers (and have not been included in this assessment).	
– Provide the name of the assessor who attests that the testing of these requirements and/or responsibilities of the MSP is accurately represented in the signed Attestation of Compliance.	
– Identify which of the MSP's IP addresses are scanned as part of the MSP's quarterly vulnerability scans.	
– Identify which of the MSP's IP addresses are the responsibility of the MSP's customers.	

4.12 Disclosure summary for "In Place with Compensating Control" responses

▪ Identify whether there were any responses indicated as "In Place with Compensating Control." **(yes/no)**	
▪ *If "yes," complete the table below:*	

List of all requirements/testing procedures with this result	Summary of the issue (legal obligation, etc.)

4.13 Disclosure summary for "Not Tested" responses

▪ Identify whether there were any responses indicated as "Not Tested": **(yes/no)**	
▪ *If "yes," complete the table below:*	

List of all requirements/testing procedures with this result	Summary of the issue (for example, not deemed in scope for the assessment, etc.)

5. Quarterly Scan Results

5.1 Quarterly scan results

▪ Is this the assessed entity's initial PCI DSS compliance validation? **(yes/no)**	

▪ Identify how many external quarterly ASV scans were performed within the last 12 months:	

▪ *Summarize* the four most recent quarterly ASV scan results in the Summary Overview as well as in comments at Requirement 11.2.2.

Note: It is not required that four passing quarterly scans must be completed for initial PCI DSS compliance if the assessor verified:
▪ *The most recent scan result was a passing scan,*
▪ *The entity has documented policies and procedures requiring quarterly scanning going forward, and*
▪ *Any vulnerabilities noted in the initial scan have been corrected as shown in a re-scan.*
For subsequent years after the initial PCI DSS review, four passing quarterly scans must have occurred.

▪ For each quarterly ASV scan performed within the last 12 months, identify:

Date of the scan(s)	Name of ASV that performed the scan	Were any vulnerabilities found that resulted in a failed initial scan? (yes/no)	For all scans resulting in a Fail, provide date(s) of re-scans showing that the vulnerabilities have been corrected

If this is the initial PCI DSS compliance validation, complete the following:	
▪ Provide the name of the assessor who attests that the most recent scan result was verified to be a passing scan.	
▪ Identify the name of the document the assessor verified to include the entity's documented policies and procedures requiring quarterly scanning going forward.	
▪ Describe how the assessor verified that any vulnerabilities noted in the initial scan have been corrected, as shown in a re-scan.	
Assessor comments, if applicable:	

5.2 Attestations of scan compliance

Scan must cover all externally accessible (Internet-facing) IP addresses in existence at the entity, in accordance with the *PCI DSS Approved Scanning Vendors (ASV) Program Guide.*

Provide the name of the assessor who attests that the ASV and the entity have completed the Attestations of Scan Compliance confirming that all externally accessible (Internet-facing) IP addresses in existence at the entity were appropriately scoped for the ASV scans:	

6. Findings and Observations

Build and Maintain a Secure Network and Systems

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

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
1.1 Establish and implement firewall and router configuration standards that include the following:							
1.1 Inspect the firewall and router configuration standards and other documentation specified below and verify that standards are complete and implemented as follows:							
1.1.1 A formal process for approving and testing all network connections and changes to the firewall and router configurations.			☐	☐	☐	☐	☐
1.1.1.a Examine documented procedures to verify there is a formal process for testing and approval of all: • Network connections, and • Changes to firewall and router configurations.	**Identify the document(s)** reviewed to verify procedures define the formal processes for:						
	• Testing and approval of all network connections.	*<Report Findings Here>*					
	• Testing and approval of all changes to firewall and router configurations.	*<Report Findings Here>*					
1.1.1.b For a sample of network connections, interview responsible personnel and examine records to verify that network connections were approved and tested.	**Identify the sample of records** for network connections that were selected for this testing procedure.	*<Report Findings Here>*					
	Identify the responsible personnel interviewed who confirm that network connections were approved and tested.	*<Report Findings Here>*					
	Describe how the sampled records verified that network connections were:						
	• Approved	*<Report Findings Here>*					
	• Tested	*<Report Findings Here>*					
1.1.1.c Identify a sample of actual changes made to firewall and router configurations, compare to the change records, and interview responsible personnel to verify the changes were approved and tested.	**Identify the sample of records** for firewall and router configuration changes that were selected for this testing procedure.	*<Report Findings Here>*					
	Identify the responsible personnel interviewed who confirm that changes made to firewall and router configurations were approved and tested.	*<Report Findings Here>*					
	Describe how the sampled records verified that the firewall and router configuration changes were:						

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
	• Approved	*<Report Findings Here>*					
	• Tested	*<Report Findings Here>*					
1.1.2 Current diagram that identifies all connections between the cardholder data environment and other networks, including any wireless networks.			☐	☐	☐	☐	☐
1.1.2.a Examine diagram(s) and observe network configurations to verify that a current network diagram exists and that it documents all connections to the cardholder data environment, including any wireless networks.	**Identify the current network diagram**(s) examined.	*<Report Findings Here>*					
	Describe how network configurations verified that the diagram:						
	• Is current.	*<Report Findings Here>*					
	• Includes all connections to cardholder data.	*<Report Findings Here>*					
	• Includes any wireless network connections.	*<Report Findings Here>*					
1.1.2.b Interview responsible personnel to verify that the diagram is kept current.	**Identify the responsible personnel** interviewed who confirm that the diagram is kept current.	*<Report Findings Here>*					
1.1.3 Current diagram that shows all cardholder data flows across systems and networks.			☐	☐	☐	☐	☐
1.1.3.a Examine data flow diagram and interview personnel to verify the diagram: • Shows all cardholder data flows across systems and networks. • Is kept current and updated as needed upon changes to the environment.	**Identify the data-flow diagram**(s) examined.	*<Report Findings Here>*					
	Identify the responsible personnel interviewed who confirm that the diagram: • Shows all cardholder data flows across systems and networks. • Is kept current and updated as needed upon changes to the environment.	*<Report Findings Here>*					
1.1.4 Requirements for a firewall at each Internet connection and between any demilitarized zone (DMZ) and the internal network zone.			☐	☐	☐	☐	☐
1.1.4.a Examine the firewall configuration standards and verify that they include requirements for a firewall at each Internet connection and between any DMZ and the internal network zone.	**Identify the firewall configuration standards document** examined to verify requirements for a firewall: • At each Internet connection. • Between any DMZ and the internal network zone.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
1.1.4.b Verify that the current network diagram is consistent with the firewall configuration standards.	**Provide the name of the assessor** who attests that the current network diagram is consistent with the firewall configuration standards.	*<Report Findings Here>*					
1.1.4.c Observe network configurations to verify that a firewall is in place at each Internet connection and between any demilitarized zone (DMZ) and the internal network zone, per the documented configuration standards and network diagrams.	**Describe how** network configurations verified that, per the documented configuration standards and network diagrams, a firewall is in place:						
	• At each Internet connection.	*<Report Findings Here>*					
	• Between any DMZ and the internal network zone.	*<Report Findings Here>*					
1.1.5 Description of groups, roles, and responsibilities for management of network components.			☐	☐	☐	☐	☐
1.1.5.a Verify that firewall and router configuration standards include a description of groups, roles, and responsibilities for management of network components.	**Identify the firewall and router configuration standards document(s)** reviewed to verify they include a description of groups, roles and responsibilities for management of network components.	*<Report Findings Here>*					
1.1.5.b Interview personnel responsible for management of network components to confirm that roles and responsibilities are assigned as documented.	**Identify the responsible personnel** interviewed who confirm that roles and responsibilities are assigned as documented.	*<Report Findings Here>*					
1.1.6 Documentation of business justification and approval for use of all services, protocols, and ports allowed, including documentation of security features implemented for those protocols considered to be insecure.			☐	☐	☐	☐	☐
1.1.6.a Verify that firewall and router configuration standards include a documented list of all services, protocols and ports, including business justification and approval for each.	**Identify the firewall and router configuration standards document(s)** reviewed to verify the document(s) contains a list of all services, protocols and ports necessary for business, including a business justification and approval for each.	*<Report Findings Here>*					
1.1.6.b Identify insecure services, protocols, and ports allowed; and verify	**Indicate whether** any insecure services, protocols or ports are allowed. **(yes/no)**	*<Report Findings Here>*					
	If "yes," complete the instructions below for EACH insecure service, protocol, and port allowed: (add rows as needed)						

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
that security features are documented for each service.	**Identify the firewall and router configuration standards document(s)** reviewed to verify that security features are documented for each insecure service/protocol/port.	*<Report Findings Here>*					
1.1.6.c Examine firewall and router configurations to verify that the documented security features are implemented for each insecure service, protocol, and port.	*If "yes" at 1.1.6.b, complete the following for each insecure service, protocol, and/or port present (add rows as needed):*						
	Describe how firewall and router configurations verified that the documented security features are implemented for each insecure service, protocol and/or port.	*<Report Findings Here>*					
1.1.7 Requirement to review firewall and router rule sets at least every six months.			☐	☐	☐	☐	☐
1.1.7.a Verify that firewall and router configuration standards require review of firewall and router rule sets at least every six months.	**Identify the firewall and router configuration standards document(s)** reviewed to verify they require a review of firewall rule sets at least every six months.	*<Report Findings Here>*					
1.1.7.b Examine documentation relating to rule set reviews and interview responsible personnel to verify that the rule sets are reviewed at least every six months.	**Identify the document(s) relating to rule set reviews** that were examined to verify that rule sets are reviewed at least every six months for firewall and router rule sets.	*<Report Findings Here>*					
	Identify the responsible personnel interviewed who confirm that rule sets are reviewed at least every six months for firewall and router rule sets.	*<Report Findings Here>*					
1.2 Build firewall and router configurations that restrict connections between untrusted networks and any system components in the cardholder data environment.							
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 Examine firewall and router configurations and perform the following to verify that connections are restricted between untrusted networks and system components in the cardholder data environment:							
1.2.1 Restrict inbound and outbound traffic to that which is necessary for the cardholder data environment, and specifically deny all other traffic.			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
1.2.1.a Examine firewall and router configuration standards to verify that they identify inbound and outbound traffic necessary for the cardholder data environment.	**Identify the firewall and router configuration standards document(s)** reviewed to verify they identify inbound and outbound traffic necessary for the cardholder data environment.	*<Report Findings Here>*					
1.2.1.b Examine firewall and router configurations to verify that inbound and outbound traffic is limited to that which is necessary for the cardholder data environment.	**Describe how** firewall and router configurations verified that the following traffic is limited to that which is necessary for the cardholder data environment:						
	• Inbound traffic	*<Report Findings Here>*					
	• Outbound traffic	*<Report Findings Here>*					
1.2.1.c Examine firewall and router configurations to verify that all other inbound and outbound traffic is specifically denied, for example by using an explicit "deny all" or an implicit deny after allow statement.	**Describe how** firewall and router configurations verified that the following is specifically denied:						
	• All other inbound traffic	*<Report Findings Here>*					
	• All other outbound traffic	*<Report Findings Here>*					
1.2.2 Secure and synchronize router configuration files.			☐	☐	☐	☐	☐
1.2.2.a Examine router configuration files to verify they are secured from unauthorized access.	**Describe how** router configuration files are secured from unauthorized access.	*<Report Findings Here>*					
1.2.2.b Examine router configurations to verify they are synchronized—for example, the running (or active) configuration matches the start-up configuration (used when machines are booted).	**Describe how** router configurations are synchronized.	*<Report Findings Here>*					
1.2.3 Install perimeter firewalls between all wireless networks and the cardholder data environment, and configure these firewalls to deny or, if traffic is necessary for business purposes, permit only authorized traffic between the wireless environment and the cardholder data environment.			☐	☐	☐	☐	☐
1.2.3.a Examine firewall and router configurations to verify that there are perimeter firewalls installed between all wireless networks and the cardholder data environment.	**Describe how** firewall and router configurations verified that perimeter firewalls are in place between all wireless networks and the cardholder data environment.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
1.2.3.b Verify that the firewalls deny or, if traffic is necessary for business purposes, permit only authorized traffic between the wireless environment and the cardholder data environment.	**Indicate whether** traffic between the wireless environment and the cardholder data environment is necessary for business purposes. **(yes/no)**	*<Report Findings Here>*					
	If "no":						
	Describe how firewall and/or router configurations verified that firewalls deny all traffic from any wireless environment into the cardholder environment.	*<Report Findings Here>*					
	If "yes":						
	Describe how firewall and/or router configurations verified that firewalls permit only authorized traffic from any wireless environment into the cardholder environment.	*<Report Findings Here>*					
1.3 Prohibit direct public access between the Internet and any system component in the cardholder data environment.							
1.3 Examine firewall and router configurations—including but not limited to the choke router at the Internet, the DMZ router and firewall, the DMZ cardholder segment, the perimeter router, and the internal cardholder network segment—and perform the following to determine that there is no direct access between the Internet and system components in the internal cardholder network segment:							
1.3.1 Implement a DMZ to limit inbound traffic to only system components that provide authorized publicly accessible services, protocols, and ports.			☐	☐	☐	☐	☐
1.3.1 Examine firewall and router configurations to verify that a DMZ is implemented to limit inbound traffic to only system components that provide authorized publicly accessible services, protocols, and ports.	**Describe how** firewall and router configurations verified that the DMZ is implemented to limit inbound traffic to only system components that provide authorized publicly accessible services, protocols, and ports.	*<Report Findings Here>*					
1.3.2 Limit inbound Internet traffic to IP addresses within the DMZ.			☐	☐	☐	☐	☐
1.3.2 Examine firewall and router configurations to verify that inbound Internet traffic is limited to IP addresses within the DMZ.	**Describe how** firewall and router configurations verified that configurations limit inbound Internet traffic to IP addresses within the DMZ.	*<Report Findings Here>*					
1.3.3 Implement anti-spoofing measures to detect and block forged source IP addresses from entering the network. *(For example, block traffic originating from the Internet with an internal source address)*			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
1.3.3 Examine firewall and router configurations to verify that anti-spoofing measures are implemented, for example internal addresses cannot pass from the Internet into the DMZ**.**	**Describe how** firewall and router configurations verified that anti-spoofing measures are implemented.	*<Report Findings Here>*					
1.3.4 Do not allow unauthorized outbound traffic from the cardholder data environment to the Internet.			☐	☐	☐	☐	☐
1.3.4 Examine firewall and router configurations to verify that outbound traffic from the cardholder data environment to the Internet is explicitly authorized.	**Describe how** firewall and router configurations verified that outbound traffic from the cardholder data environment to the Internet is explicitly authorized.	*<Report Findings Here>*					
1.3.5 Permit only "established" connections into the network.			☐	☐	☐	☐	☐
1.3.5 Examine firewall and router configurations to verify that the firewall permits only established connections into internal network, and denies any inbound connections not associated with a previously established session.	**Describe how** firewall and router configurations verified that the firewall permits only established connections into internal network, and denies any inbound connections not associated with a previously established session	*<Report Findings Here>*					
1.3.6 Place system components that store cardholder data (such as a database) in an internal network zone, segregated from the DMZ and other untrusted networks.			☐	☐	☐	☐	☐
1.3.6 Examine firewall and router configurations to verify that system components that store cardholder data are on an internal network zone, segregated from the DMZ and other untrusted networks.	**Indicate whether** any system components store cardholder data. **(yes/no)**	*<Report Findings Here>*					
	If "yes":						
	Describe how firewall and router configurations verified that the system components that store cardholder data are located on an internal network zone, and are segregated from the DMZ and other untrusted networks.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
1.3.7 Do not disclose private IP addresses and routing information to unauthorized parties. 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.			☐	☐	☐	☐	☐
1.3.7.a Examine firewall and router configurations to verify that methods are in place to prevent the disclosure of private IP addresses and routing information from internal networks to the Internet.	**Describe how** firewall and router configurations verified that methods are in place to prevent the disclosure of private IP addresses and routing information from internal networks to the Internet.	*<Report Findings Here>*					
1.3.7.b Interview personnel and examine documentation to verify that any disclosure of private IP addresses and routing information to external entities is authorized.	**Identify the document** reviewed that specifies whether any disclosure of private IP addresses and routing information to external parties is permitted.	*<Report Findings Here>*					
	For each permitted disclosure, **identify the responsible personnel** interviewed who confirm that the disclosure is authorized.	*<Report Findings Here>*					
1.4 Install personal firewall software or equivalent functionality 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. Firewall (or equivalent) configurations include: • Specific configuration settings are defined. • Personal firewall (or equivalent functionality) is actively running. • Personal firewall (or equivalent functionality) is not alterable by users of the portable computing devices.			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
1.4.a Examine policies and configuration standards to verify: • Personal firewall software or equivalent functionality is required for all 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. • Specific configuration settings are defined for personal firewall or equivalent functionality. • Personal firewall or equivalent functionality is configured to actively run. • Personal firewall or equivalent functionality is configured to not be alterable by users of the portable computing devices.	**Indicate whether** portable computing devices (including company and/or employee-owned) with direct connectivity to the Internet when outside the network are used to access the organization's CDE. **(yes/no)**	*<Report Findings Here>*					
	If "no," **identify the document** reviewed that explicitly prohibits portable computing devices (including company and/or employee-owned) with direct connectivity to the Internet when outside the network from being used to access the organization's CDE. *Mark 1.4.b as "not applicable"*	*<Report Findings Here>*					
	If "yes," **identify the documented policies and configuration standards** that define the following: • Personal firewall software or equivalent functionality is required for all 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. • Specific configuration settings are defined for personal firewall or equivalent functionality. • Personal firewall or equivalent functionality is configured to actively run. • Personal firewall or equivalent functionality is configured to not be alterable by users of the portable computing devices.	*<Report Findings Here>*					
1.4.b Inspect a sample of portable computing devices (including company and/or employee-owned) to verify that: • Personal firewall (or equivalent functionality) is installed and	**Identify the sample** of mobile and/or employee-owned devices selected for this testing procedure.	*<Report Findings Here>*					
	Describe how the sample of portable computing devices (including company and/or employee-owned) verified that personal firewall software is:						
	• Installed and configured per the organization's specific configuration settings.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
configured per the organization's specific configuration settings. • Personal firewall (or equivalent functionality) is actively running. • Personal firewall or equivalent functionality is not alterable by users of the portable computing devices.	• Actively running.	*<Report Findings Here>*					
	• Not alterable by users of mobile and/or employee-owned devices.	*<Report Findings Here>*					
1.5 Ensure that security policies and operational procedures for managing firewalls are documented, in use, and known to all affected parties.			☐	☐	☐	☐	☐
1.5 Examine documentation and interview personnel to verify that security policies and operational procedures for managing firewalls are: • Documented, • In use, and • Known to all affected parties.	**Identify the document reviewed** to verify that security policies and operational procedures for managing firewalls are documented.	*<Report Findings Here>*					
	Identify the responsible personnel interviewed who confirm that the above documented security policies and operational procedures for managing firewalls are: • In use • Known to all affected parties	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
2.1 Always change vendor-supplied defaults and remove or disable unnecessary default accounts **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, POS terminals, payment applications, Simple Network Management Protocol (SNMP) community strings, etc.			☐	☐	☐	☐	☐
2.1.a Choose a sample of system components, and attempt to log on (with system administrator help) to the devices and applications using default vendor-supplied accounts and passwords, to verify that ALL default passwords (including those on operating systems, software that provides security services, application and system accounts, POS terminals, and Simple Network Management Protocol (SNMP) community strings) have been changed. (Use vendor manuals and sources on the Internet to find vendor-supplied accounts/passwords.)	**Identify the sample** of system components selected for this testing procedure.	*<Report Findings Here>*					
	Identify the vendor manuals and sources on the Internet used to find vendor-supplied accounts/passwords.	*<Report Findings Here>*					
	For each item in the sample, **describe how** attempts to log on to the sample of devices and applications using default vendor-supplied accounts and passwords verified that all default passwords have been changed.	*<Report Findings Here>*					
2.1.b For the sample of system components, verify that all unnecessary default accounts (including accounts used by operating systems, security software, applications, systems, POS terminals, SNMP, etc.) are removed or disabled.	*For each item in the sample of system components indicated at 2.1.a,* **describe how** *all unnecessary default accounts were verified to be* **either***:*						
	• Removed	*<Report Findings Here>*					
	• Disabled	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
2.1.c Interview personnel and examine supporting documentation to verify that: • All vendor defaults (including default passwords on operating systems, software providing security services, application and system accounts, POS terminals, Simple Network Management Protocol (SNMP) community strings, etc.) are changed before a system is installed on the network. • Unnecessary default accounts (including accounts used by operating systems, security software, applications, systems, POS terminals, SNMP, etc.) are removed or disabled before a system is installed on the network.	**Identify the responsible personnel** interviewed who verify that: • All vendor defaults (including default passwords on operating systems, software providing security services, application and system accounts, POS terminals, Simple Network Management Protocol (SNMP) community strings, etc. are changed before a system is installed on the network. • Unnecessary default accounts (including accounts used by operating systems, security software, applications, systems, POS terminals, SNMP, etc.) are removed or disabled before a system is installed on the network.	*<Report Findings Here>*					
	Identify supporting documentation examined to verify that: • All vendor defaults (including default passwords on operating systems, software providing security services, application and system accounts, POS terminals, Simple Network Management Protocol (SNMP) community strings, etc.) are changed before a system is installed on the network. • Unnecessary default accounts (including accounts used by operating systems, security software, applications, systems, POS terminals, SNMP, etc.) are removed or disabled before a system is installed on the network.	*<Report Findings Here>*					
2.1.1 For wireless environments connected to the cardholder data environment or transmitting cardholder data, change ALL wireless vendor defaults at installation, including but not limited to default wireless encryption keys, passwords, and SNMP community strings.			☐	☐	☐	☐	☐
2.1.1.a Interview responsible personnel and examine supporting documentation to verify that: • Encryption keys were changed from default at installation	**Indicate whether** there are wireless environments connected to the cardholder data environment or transmitting cardholder data. **(yes/no)** *If "no," mark 2.1.1 as "Not Applicable" and proceed to 2.2.*	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
• Encryption keys are changed anytime anyone with knowledge of the keys leaves the company or changes positions.	*If "yes":*						
	Identify the responsible personnel interviewed who verify that encryption keys are changed: • From default at installation • Anytime anyone with knowledge of the keys leaves the company or changes positions.	*<Report Findings Here>*					
	Identify supporting documentation examined to verify that: • Encryption keys were changed from default at installation • Encryption keys are changed anytime anyone with knowledge of the keys leaves the company or changes positions.	*<Report Findings Here>*					
2.1.1.b Interview personnel and examine policies and procedures to verify: • Default SNMP community strings are required to be changed upon installation. • Default passwords/phrases on access points are required to be changed upon installation.	**Identify the responsible personnel** interviewed who verify that: • Default SNMP community strings are required to be changed upon installation. • Default passwords/passphrases on access points are required to be changed upon installation.	*<Report Findings Here>*					
	Identify policies and procedures examined to verify that: • Default SNMP community strings are required to be changed upon installation. • Default passwords/phrases on access points are required to be changed upon installation.	*<Report Findings Here>*					
2.1.1.c Examine vendor documentation and login to wireless devices, with system administrator help, to verify: • Default SNMP community strings are not used. • Default passwords/passphrases on access points are not used.	**Identify vendor documentation** examined to verify that: • Default SNMP community strings are not used. • Default passwords/passphrases on access points are not used.	*<Report Findings Here>*					
	Describe how attempts to login to wireless devices verified that:						
	• Default SNMP community strings are not used.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
	• Default passwords/passphrases on access points are not used.	*<Report Findings Here>*					
2.1.1.d Examine vendor documentation and observe wireless configuration settings to verify firmware on wireless devices is updated to support strong encryption for: • Authentication over wireless networks • Transmission over wireless networks	**Identify vendor documentation** examined to verify firmware on wireless devices is updated to support strong encryption for: • Authentication over wireless networks • Transmission over wireless networks	*<Report Findings Here>*					
	Describe how wireless configuration settings verified that firmware on wireless devices is updated to support strong encryption for:						
	• Authentication over wireless networks.	*<Report Findings Here>*					
	• Transmission over wireless networks.	*<Report Findings Here>*					
2.1.1.e Examine vendor documentation and observe wireless configuration settings to verify other security-related wireless vendor defaults were changed, if applicable.	**Identify vendor documentation** examined to verify other security-related wireless vendor defaults were changed, if applicable.	*<Report Findings Here>*					
	Describe how wireless configuration settings verified that other security-related wireless vendor defaults were changed, if applicable.	*<Report Findings Here>*					
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. Sources of industry-accepted system hardening standards may include, but are not limited to: • Center for Internet Security (CIS) • International Organization for Standardization (ISO) • SysAdmin Audit Network Security (SANS) Institute • National Institute of Standards Technology (NIST)			☐	☐	☐	☐	☐
2.2.a Examine the organization's system configuration standards for all types of system components and verify the system configuration standards are consistent	**Identify the documented system configuration standards** for all types of system components examined to verify the system configuration standards are consistent with industry-accepted hardening standards.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
with industry-accepted hardening standards.	**Provide the name of the assessor** who attests that the system configuration standards are consistent with industry-accepted hardening standards.	*<Report Findings Here>*					
2.2.b Examine policies and interview personnel to verify that system configuration standards are updated as new vulnerability issues are identified, as defined in Requirement 6.1.	**Identify the policy documentation** examined to verify that system configuration standards are updated as new vulnerability issues are identified.	*<Report Findings Here>*					
	Identify the responsible personnel interviewed who confirm that system configuration standards are updated as new vulnerability issues are identified.	*<Report Findings Here>*					
2.2.c Examine policies and interview personnel to verify that system configuration standards are applied when new systems are configured and verified as being in place before a system is installed on the network.	**Identify the policy documentation** examined to verify it defines that system configuration standards are applied when new systems are configured and verified as being in place before a system is installed on the network	*<Report Findings Here>*					
	Identify the responsible personnel interviewed who confirm that system configuration standards are applied when new systems are configured and verified as being in place before a system is installed on the network.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
2.2.d Verify that system configuration standards include the following procedures for all types of system components: • 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	**Identify the system configuration standards** for all types of system components that include the following procedures: • 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	*<Report Findings Here>*					
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. (For example, web servers, database servers, and DNS should be implemented on separate servers.) *Note: Where virtualization technologies are in use, implement only one primary function per virtual system component.*			☐	☐	☐	☐	☐
2.2.1.a Select a sample of system components and inspect the system configurations to verify that only one primary function is implemented per server.	**Identify the sample** of system components selected for this testing procedure.	*<Report Findings Here>*					
	For each item in the sample, **describe how** system configurations verified that only one primary function per server is implemented.	*<Report Findings Here>*					
2.2.1.b If virtualization technologies are used, inspect the system configurations to	**Indicate whether** virtualization technologies are used. **(yes/no)**	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
verify that only one primary function is implemented per virtual system component or device.	*If "no,"* **describe how** systems were observed to verify that no virtualization technologies are used.	*<Report Findings Here>*					
	If "yes":						
	Identify the sample of virtual system components or devices selected for this testing procedure.	*<Report Findings Here>*					
	For each virtual system component and device in the sample, **describe how** system configurations verified that only one primary function is implemented per virtual system component or device.	*<Report Findings Here>*					
2.2.2 Enable only necessary services, protocols, daemons, etc., as required for the function of the system.			☐	☐	☐	☐	☐
2.2.2.a Select a sample of system components and inspect enabled system services, daemons, and protocols to verify that only necessary services or protocols are enabled.	**Identify the sample** of system components selected for this testing procedure.	*<Report Findings Here>*					
	For each item in the sample, **describe how** the enabled system services, daemons, and protocols verified that only necessary services or protocols are enabled.	*<Report Findings Here>*					
2.2.2.b Identify any enabled insecure services, daemons, or protocols and interview personnel to verify they are justified per documented configuration standards.	*For each item in the sample of system components from 2.2.2.a*, **indicate whether** any insecure services, daemons, or protocols are enabled. **(yes/no)** *If "no," mark the remainder of 2.2.2.b and 2.2.3 as "Not Applicable."*	*<Report Findings Here>*					
	If "yes," **identify the responsible personnel** interviewed who confirm that a documented business justification was present for each insecure service, daemon, or protocol	*<Report Findings Here>*					
2.2.3 Implement additional security features for any required services, protocols, or daemons that are considered to be insecure			☐	☐	☐	☐	☐
2.2.3 Inspect configuration settings to verify that security features are documented and implemented for all insecure services, daemons, or protocols.	*If "yes" at 2.2.2.b, perform the following:*						
	Describe how configuration settings verified that security features for all insecure services, daemons, or protocols are:						
	• Documented	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
	• Implemented	*<Report Findings Here>*					
2.2.4 Configure system security parameters to prevent misuse.			☐	☐	☐	☐	☐
2.2.4.a Interview system administrators and/or security managers to verify that they have knowledge of common security parameter settings for system components.	**Identify the system administrators and/or security managers** interviewed for this testing procedure.	*<Report Findings Here>*					
	For the interview, **summarize the relevant details** discussed to verify that they have knowledge of common security parameter settings for system components.	*<Report Findings Here>*					
2.2.4.b Examine the system configuration standards to verify that common security parameter settings are included.	**Identify the system configuration standards** examined to verify that common security parameter settings are included.	*<Report Findings Here>*					
2.2.4.c Select a sample of system components and inspect the common security parameters to verify that they are set appropriately and in accordance with the configuration standards.	**Identify the sample** of system components selected for this testing procedure.	*<Report Findings Here>*					
	For each item in the sample, **describe how** the common security parameters verified that they are set appropriately and in accordance with the configuration standards.	*<Report Findings Here>*					
2.2.5 Remove all unnecessary functionality, such as scripts, drivers, features, subsystems, file systems, and unnecessary web servers.			☐	☐	☐	☐	☐
2.2.5.a Select a sample of system components and inspect the configurations to verify that all unnecessary functionality (for example, scripts, drivers, features, subsystems, file systems, etc.) is removed.	**Identify the sample** of system components selected for this testing procedure.	*<Report Findings Here>*					
	For each item in the sample, **describe how** configurations verified that all unnecessary functionality is removed.	*<Report Findings Here>*					
2.2.5.b Examine the documentation and security parameters to verify enabled functions are documented and support secure configuration.	**Describe how** the security parameters and relevant documentation verified that enabled functions are:						
	• Documented	*<Report Findings Here>*					
	• Support secure configuration	*<Report Findings Here>*					
2.2.5.c Examine the documentation and security parameters to verify that only	**Identify documentation** examined for this testing procedure.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
documented functionality is present on the sampled system components.	**Describe how** the security parameters verified that only documented functionality is present on the sampled system components from 2.2.5.a.	*<Report Findings Here>*					
2.3 Encrypt all non-console administrative access using strong cryptography.			☐	☐	☐	☐	☐
2.3 Select a sample of system components and verify that non-console administrative access is encrypted by performing the following:	**Identify the sample** of system components selected for 2.3.a-2.3.d.	*<Report Findings Here>*					
2.3.a Observe an administrator log on to each system and examine system configurations to verify that a strong encryption method is invoked before the administrator's password is requested.	*For each item in the sample from 2.3:*						
	Describe how the administrator log on to each system verified that a strong encryption method is invoked before the administrator's password is requested.	*<Report Findings Here>*					
	Describe how system configurations for each system verified that a strong encryption method is invoked before the administrator's password is requested.	*<Report Findings Here>*					
	Identify the strong encryption method used for non-console administrative access.	*<Report Findings Here>*					
2.3.b Review services and parameter files on systems to determine that Telnet and other insecure remote-login commands are not available for non-console access.	*For each item in the sample from 2.3:*						
	Describe how services and parameter files on systems verified that Telnet and other insecure remote-login commands are not available for non-console access.	*<Report Findings Here>*					
2.3.c Observe an administrator log on to each system to verify that administrator access to any web-based management interfaces is encrypted with strong cryptography.	*For each item in the sample from 2.3:*						
	Describe how the administrator log on to each system verified that administrator access to any web-based management interfaces was encrypted with strong cryptography.	*<Report Findings Here>*					
	Identify the strong encryption method used for any web-based management interfaces.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
2.3.d Examine vendor documentation and interview personnel to verify that strong cryptography for the technology in use is implemented according to industry best practices and/or vendor recommendations.	**Identify the vendor documentation** examined to verify that strong cryptography for the technology in use is implemented according to industry best practices and/or vendor recommendations.	*<Report Findings Here>*					
	Identify the responsible personnel interviewed who confirm that that strong cryptography for the technology in use is implemented according to industry best practices and/or vendor recommendations.	*<Report Findings Here>*					
2.4 Maintain an inventory of system components that are in scope for PCI DSS.			☐	☐	☐	☐	☐
2.4.a Examine system inventory to verify that a list of hardware and software components is maintained and includes a description of function/use for each.	**Describe how** the system inventory verified that a list of hardware and software components is:						
	• Maintained	*<Report Findings Here>*					
	• Includes a description of function/use for each	*<Report Findings Here>*					
2.4.b Interview personnel to verify the documented inventory is kept current.	**Identify the responsible personnel** interviewed who confirm that the documented inventory is kept current.	*<Report Findings Here>*					
2.5 Ensure that security policies and operational procedures for managing vendor defaults and other security parameters are documented, in use, and known to all affected parties.			☐	☐	☐	☐	☐
2.5 Examine documentation and interview personnel to verify that security policies and operational procedures for managing vendor defaults and other security parameters are: • Documented, • In use, and • Known to all affected parties.	**Identify the document** reviewed to verify that security policies and operational procedures for managing vendor defaults and other security parameters are documented.	<Report Findings Here>					
	Identify the responsible personnel interviewed who confirm that the above documented security policies and operational procedures for managing vendor defaults and other security parameters are: • In use • Known to all affected parties	*<Report Findings Here>*					
2.6 Shared hosting providers must protect each entity's hosted environment and cardholder data. These providers must meet specific requirements as detailed in *Appendix A1: Additional PCI DSS Requirements for Shared Hosting Providers.*			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
2.6 Perform testing procedures **A1.1** through **A1.4** detailed in *Appendix A1: Additional PCI DSS Requirements for Shared Hosting Providers* for PCI DSS assessments of shared hosting providers, to verify that shared hosting providers protect their entities' (merchants and service providers) hosted environment and data.	**Indicate whether** the assessed entity is a shared hosting provider. **(yes/no)**	*<Report Findings Here>*					
	If "yes," **provide the name of the assessor** who attests that Appendix A1: Additional PCI DSS Requirements for Shared Hosting Providers has been completed.	*<Report Findings Here>*					

Protect Stored Cardholder Data

Requirement 3:   Protect stored cardholder data

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
3.1 Keep cardholder data storage to a minimum by implementing data-retention and disposal policies, procedures and processes that include at least the following for all CHD storage: • Limiting data storage amount and retention time to that which is required for legal, regulatory, and/or business requirements. • Specific retention requirements for cardholder data • Processes for secure deletion of data when no longer needed. • A quarterly process for identifying and securely deleting stored cardholder data that exceeds defined retention.			☐	☐	☐	☐	☐
3.1.a Examine the data-retention and disposal policies, procedures and processes to verify they include the following for all cardholder data (CHD) storage: • Limiting data storage amount and retention time to that which is required for legal, regulatory, and/or business requirements. • Specific requirements for retention of cardholder data (for example, cardholder data needs to be held for X period for Y business reasons). • Processes for secure deletion of cardholder data when no longer needed for legal, regulatory, or business reasons • A quarterly process for identifying and securely deleting stored cardholder data that exceeds defined retention requirements.	**Identify the data-retention and disposal documentation** examined to verify policies, procedures, and processes define the following for all cardholder data (CHD) storage: • Limiting data storage amount and retention time to that which is required for legal, regulatory, and/or business requirements for data retention. • Specific requirements for retention of cardholder data. • Processes for secure deletion of cardholder data when no longer needed for legal, regulatory, or business reasons. • A quarterly process for identifying and securely deleting stored cardholder data that exceeds defined retention requirements.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
3.1.b Interview personnel to verify that: • All locations of stored cardholder data are included in the data-retention and disposal processes. • Either a quarterly automatic or manual process is in place to identify and securely delete stored cardholder data. • The quarterly automatic or manual process is performed for all locations of cardholder data.	**Identify the responsible personnel** interviewed who confirm that: • All locations of stored cardholder data are included in the data-retention and disposal processes. • Either a quarterly automatic or manual process is in place to identify and securely delete stored cardholder data. • The quarterly automatic or manual process is performed for all locations of cardholder data.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
3.1.c For a sample of system components that store cardholder data:	**Identify the sample** of system components selected for this testing procedure.	*<Report Findings Here>*					
• Examine files and system records to verify that the data stored does not exceed the requirements defined in the data-retention policy.	*For each item in the sample*, **describe how** files and system records verified that the data stored does not exceed the requirements defined in the data-retention policy.	*<Report Findings Here>*					
• Observe the deletion mechanism to verify data is deleted securely.	**Describe how** the deletion mechanism was observed to verify data is deleted securely.	*<Report Findings Here>*					
3.2 Do not store sensitive authentication data after authorization (even if encrypted). If sensitive authentication data is received, render all data unrecoverable upon completion of the authorization process. *It is permissible for issuers and companies that support issuing services to store sensitive authentication data if:* • *There is a business justification, and* • *The data is stored securely.* *Sensitive authentication data includes the data as cited in the following Requirements 3.2.1 through 3.2.3:*			☐	☐	☐	☐	☐
3.2.a For issuers and/or companies that support issuing services and store sensitive authentication data, review policies and interview personnel to verify there is a documented business justification for the storage of sensitive authentication data.	**Indicate whether** the assessed entity is an issuer or supports issuing service. **(yes/no)**	*<Report Findings Here>*					
	If "yes," complete the responses for 3.2.a and 3.2.b and mark 3.2.c and 3.2.d as "Not Applicable." *If "no," mark the remainder of 3.2.a and 3.2.b as "Not Applicable" and proceed to 3.2.c and 3.2.d.*						
	Identify the documentation reviewed to verify there is a documented business justification for the storage of sensitive authentication data.	*<Report Findings Here>*					
	Identify the interviewed personnel who confirm there is a documented business justification for the storage of sensitive authentication data.	*<Report Findings Here>*					
	For the interview, **summarize the relevant details** of the business justification described.	*<Report Findings Here>*					
3.2.b For issuers and/or companies that support issuing services and store sensitive authentication data, examine data stores and system configurations to verify that the sensitive authentication data is secured.	*If "yes" at 3.2.a,*						
	Identify data stores examined.	*<Report Findings Here>*					
	Describe how the data stores and system configurations were examined to verify that the sensitive authentication data is secured.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
3.2.c For all other entities, if sensitive authentication data is received, review policies and procedures, and examine system configurations to verify the data is not retained after authorization.	**Indicate whether** sensitive authentication data is received. **(yes/no)**	*<Report Findings Here>*					
	If "yes," complete 3.2.c and 3.2.d. If "no," mark the remainder of 3.2.c and 3.2.d as "Not Applicable" and proceed to 3.2.1.						
	Identify the document(s) reviewed to verify the data is not retained after authorization.	*<Report Findings Here>*					
	Describe how system configurations verified that the data is not retained after authorization.	*<Report Findings Here>*					
3.2.d For all other entities, if sensitive authentication data is received, review procedures and examine the processes for securely deleting the data to verify that the data is unrecoverable.	**Identify the document(s)** reviewed to verify that it defines processes for securely deleting the data so that it is unrecoverable.	*<Report Findings Here>*					
	Describe how the processes for securely deleting the data were examined to verify that the data is unrecoverable.	*<Report Findings Here>*					
3.2.1 Do not store the full contents of any track (from the magnetic stripe located on the back of a card, equivalent data contained on a chip, or elsewhere) after authorization. This data is alternatively called full track, track, track 1, track 2, and magnetic-stripe data. ***Note:*** *In the normal course of business, the following data elements from the magnetic stripe may need to be retained:* • *The cardholder's name* • *Primary account number (PAN)* • *Expiration date* • *Service code* *To minimize risk, store only these data elements as needed for business.*			☐	☐		☐	☐
3.2.1 For a sample of system components, examine data sources, including but not limited to the following, and verify that the full contents of any track from the magnetic stripe on the back of card or equivalent data on a chip are not stored after authorization: • Incoming transaction data	**Identify the sample** of system components selected for 3.2.1-3.2.3.	*<Report Findings Here>*					
	For each data source type below from the sample of system of components examined, **summarize the specific examples of each data source type observed** to verify that the full contents of any track from the magnetic stripe on the back of card or equivalent data on a chip are not stored after authorization. If that type of data source is not present, indicate that in the space.						
	• Incoming transaction data	*<Report Findings Here>*					
	• All logs (for example, transaction, history, debugging error)	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
• All logs (for example, transaction, history, debugging, error) • History files • Trace files • Several database schemas • Database contents	• History files	*<Report Findings Here>*					
	• Trace files	*<Report Findings Here>*					
	• Database schemas	*<Report Findings Here>*					
	• Database contents	*<Report Findings Here>*					
	• If applicable, **any other output observed** to be generated	*<Report Findings Here>*					
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 after authorization.			☐	☐		☐	☐
3.2.2 For a sample of system components, examine data sources, including but not limited to the following, and verify that the three-digit or four-digit card verification code or value printed on the front of the card or the signature panel (CVV2, CVC2, CID, CAV2 data) is not stored after authorization: • Incoming transaction data • All logs (for example, transaction, history, debugging, error) • History files • Trace files • Several database schemas • Database contents	*For each data source type below from the sample of system of components at 3.2.1,* **summarize the specific examples of each data source type observed** *to verify that the three-digit or four-digit card verification code or value printed on the front of the card or the signature panel (CVV2, CVC2, CID, CAV2 data) is not stored after authorization. If that type of data source is not present, indicate that in the space.*						
	• Incoming transaction data	*<Report Findings Here>*					
	• All logs (for example, transaction, history, debugging error)	*<Report Findings Here>*					
	• History files	*<Report Findings Here>*					
	• Trace files	*<Report Findings Here>*					
	• Database schemas	*<Report Findings Here>*					
	• Database contents	*<Report Findings Here>*					
	• If applicable, **any other output observed** to be generated	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
3.2.3 Do not store the personal identification number (PIN) or the encrypted PIN block after authorization.			☐	☐		☐	☐
3.2.3 For a sample of system components, examine data sources, including but not limited to the following and verify that PINs and encrypted PIN blocks are not stored after authorization: • Incoming transaction data • All logs (for example, transaction, history, debugging, error) • History files • Trace files • Several database schemas • Database contents	*For each data source type below from the sample of system of components at 3.2.1,* **summarize the specific examples of each data source type observed** *to verify that PINs and encrypted PIN blocks are not stored after authorization. If that type of data source is not present, indicate that in the space.*						
	• Incoming transaction data	*<Report Findings Here>*					
	• All logs (for example, transaction, history, debugging error)	*<Report Findings Here>*					
	• History files	*<Report Findings Here>*					
	• Trace files	*<Report Findings Here>*					
	• Database schemas	*<Report Findings Here>*					
	• Database contents	*<Report Findings Here>*					
	• If applicable, **any other output observed** to be generated	*<Report Findings Here>*					
3.3 Mask PAN when displayed (the first six and last four digits are the maximum number of digits to be displayed), such that only personnel with a legitimate business need can see more than first six/last four digits of the PAN. ***Note:*** *This requirement does not supersede stricter requirements in place for displays of cardholder data—for example, legal or payment card brand requirements for point-of-sale (POS) receipts.*			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
3.3.a Examine written policies and procedures for masking the display of PANs to verify: • A list of roles that need access to displays of more than first six/last four (includes full PAN) is documented, together with a legitimate business need for each role to have such access. • PAN must be masked when displayed such that only personnel with a legitimate business need can see more than the first six/last four digits of the PAN. • All roles not specifically authorized to see the full PAN must only see masked PANs.	**Identify the document(s)** reviewed to verify that written policies and procedures for masking the displays of PANs include the following: • A list of roles that need access to displays of more than first six/last four (includes full PAN) is documented, together with a legitimate business need for each role to have such access. • PAN must be masked when displayed such that only personnel with a legitimate business need can see more than first six/last four digits of the PAN. • All roles not specifically authorized to see the full PAN must only see masked PANs.	*<Report Findings Here>*					
3.3.b Examine system configurations to verify that full PAN is only displayed for users/roles with a documented business need, and that PAN is masked for all other requests.	**Describe how** system configurations verified that:						
	• Full PAN is only displayed for users/roles with a documented business need.	*<Report Findings Here>*					
	• PAN is masked for all other requests.	*<Report Findings Here>*					
3.3.c Examine displays of PAN (for example, on screen, on paper receipts) to verify that PANs are masked when displaying cardholder data, and that only those with a legitimate business need are able to see more than first six/last four digits of the PAN.	**Describe how** displays of PAN verified that:						
	• PANs are masked when displaying cardholder data.	*<Report Findings Here>*					
	• Only those with a legitimate business need are able to see more than first six/last four digits of the PAN.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
3.4 Render PAN unreadable anywhere it is stored (including on portable digital media, backup media, and in logs) by using any of the following approaches: • One-way hashes based on strong cryptography, (hash must be of the entire PAN). • Truncation (hashing cannot be used to replace the truncated segment of PAN). • Index tokens and pads (pads must be securely stored). • Strong cryptography with associated key-management processes and procedures. *Note: It is a relatively trivial effort for a malicious individual to reconstruct original PAN data if they have access to both the truncated and hashed version of a PAN. Where hashed and truncated versions of the same PAN are present in an entity's environment, additional controls must be in place to ensure that the hashed and truncated versions cannot be correlated to reconstruct the original PAN.*			☐	☐	☐	☐	☐
3.4.a Examine documentation about the system used to protect the PAN, including the vendor, type of system/process, and the encryption algorithms (if applicable) to verify that the PAN is rendered unreadable using any of the following methods: • One-way hashes based on strong cryptography, • Truncation • Index tokens and pads, with the pads being securely stored • Strong cryptography, with associated key-management processes and procedures	**Identify the documentation** examined to verify that the PAN is rendered unreadable using any of the following methods: • One-way hashes based on strong cryptography, • Truncation • Index tokens and pads, with the pads being securely stored • Strong cryptography, with associated key-management processes and procedures	*<Report Findings Here>*					
3.4.b Examine several tables or files from a sample of data repositories to verify the PAN is rendered unreadable (that is, not stored in plain-text).	**Identify the sample** of data repositories selected for this testing procedure.	*<Report Findings Here>*					
	Identify the tables or files examined for each item in the sample of data repositories.	*<Report Findings Here>*					
	For each item in the sample, **describe how** the tables or files verified that the PAN is rendered unreadable.	*<Report Findings Here>*					
3.4.c Examine a sample of removable media (for example, backup tapes) to	**Identify the sample** of removable media selected for this testing procedure.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
confirm that the PAN is rendered unreadable.	*For each item in the sample*, **describe how** the sample of removable media confirmed that the PAN is rendered unreadable.	*<Report Findings Here>*					
3.4.d Examine a sample of audit logs, including payment application logs, to confirm that PAN is rendered unreadable or is not present in the logs.	**Identify the sample** of audit logs, including payment application logs, selected for this testing procedure.	*<Report Findings Here>*					
	For each item in the sample, **describe how** the sample of audit logs, including payment application logs, confirmed that the PAN is rendered unreadable or is not present in the logs.	*<Report Findings Here>*					
3.4.e If hashed and truncated versions of the same PAN are present in the environment, examine implemented controls to verify that the hashed and truncated versions cannot be correlated to reconstruct the original PAN.	**Identify whether** hashed and truncated versions of the same PAN are present in the environment **(yes/no)** *If 'no,'* mark 3.4.e as 'not applicable' and proceed to 3.4.1.	*<Report Findings Here>*					
	If 'yes,' **describe** the implemented controls examined to verify that the hashed and truncated versions cannot be correlated to reconstruct the original PAN.	*<Report Findings Here>*					
3.4.1 If disk encryption is used (rather than file- or column-level database encryption), logical access must be managed separately and independently of native operating system authentication and access control mechanisms (for example, by not using local user account databases or general network login credentials). Decryption keys must not be associated with user accounts. *Note: This requirement applies in addition to all other PCI DSS encryption and key management requirements.*			☐	☐	☐	☐	☐
3.4.1.a If disk encryption is used, inspect the configuration and observe the authentication process to verify that logical access to encrypted file systems is implemented via a mechanism that is separate from the native operating system's authentication mechanism (for example, not using local user account databases or general network login credentials).	**Indicate whether** disk encryption is used. **(yes/no)**	*<Report Findings Here>*					
	If "yes," complete the remainder of 3.4.1.a, 3.4.1.b, and 3.4.1.c. *If "no," mark the remainder of 3.4.1.a, 3.4.1.b and 3.4.1.c as "Not Applicable.'*						
	Describe the disk encryption mechanism(s) in use.	*<Report Findings Here>*					
	For each disk encryption mechanism in use, **describe how** the configuration verified that logical access to encrypted file systems is separate from the native operating system's authentication mechanism.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
	For each disk encryption mechanism in use, **describe how** the authentication process was observed to verify that logical access to encrypted file systems is separate from the native operating system's authentication mechanism.	*<Report Findings Here>*					
3.4.1.b Observe processes and interview personnel to verify that cryptographic keys are stored securely (for example, stored on removable media that is adequately protected with strong access controls).	**Describe how** processes were observed to verify that cryptographic keys are stored securely.	*<Report Findings Here>*					
	Identify the responsible personnel interviewed who confirm that cryptographic keys are stored securely.	*<Report Findings Here>*					
3.4.1.c Examine the configurations and observe the processes to verify that cardholder data on removable media is encrypted wherever stored.	**Describe how** the configurations verified that cardholder data on removable media is encrypted wherever stored.	*<Report Findings Here>*					
Note: If disk encryption is not used to encrypt removable media, the data stored on this media will need to be rendered unreadable through some other method.	**Describe how** processes were observed to verify that cardholder data on removable media is encrypted wherever stored.	*<Report Findings Here>*					
3.5 Document and implement procedures to protect keys used to secure stored cardholder data against disclosure and misuse: *Note: This requirement applies to keys used to encrypt stored cardholder data, and also applies to key-encrypting keys used to protect data-encrypting keys—such key-encrypting keys must be at least as strong as the data-encrypting key.*			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
3.5 Examine key-management policies and procedures to verify processes are specified to protect keys used for encryption of cardholder data against disclosure and misuse and include at least the following: • Access to keys is restricted to the fewest number of custodians necessary. • Key-encrypting keys are at least as strong as the data-encrypting keys they protect. • Key-encrypting keys are stored separately from data-encrypting keys. • Keys are stored securely in the fewest possible locations and forms.	**Identify the documented key-management policies and processes** examined to verify processes are defined to protect keys used for encryption of cardholder data against disclosure and misuse and include at least the following: • Access to keys is restricted to the fewest number of custodians necessary. • Key-encrypting keys are at least as strong as the data-encrypting keys they protect. • Key-encrypting keys are stored separately from data-encrypting keys. • Keys are stored securely in the fewest possible locations and forms.	*<Report Findings Here>*					
3.5.1 *Additional requirement for service providers only:* Maintain a documented description of the cryptographic architecture that includes: • Details of all algorithms, protocols, and keys used for the protection of cardholder data, including key strength and expiry date • Description of the key usage for each key. • Inventory of any HSMs and other SCDs used for key management			☐	☐	☐	☐	☐
3.5.1 Interview responsible personnel and review documentation to verify that a document exists to describe the cryptographic architecture, including: • Details of all algorithms, protocols, and keys used for the protection of cardholder data, including key strength and expiry date	**Identify the responsible personnel interviewed** who confirm that a document exists to describe the cryptographic architecture, including: • Details of all algorithms, protocols, and keys used for the protection of cardholder data, including key strength and expiry date • Description of the key usage for each key • Inventory of any HSMs and other SCDs used for key management	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
• Description of the key usage for each key • Inventory of any HSMs and other SCDs used for key management	**Identify the documentation reviewed** to verify that it contains a description of the cryptographic architecture, including: • Details of all algorithms, protocols, and keys used for the protection of cardholder data, including key strength and expiry date • Description of the key usage for each key • Inventory of any HSMs and other SCDs used for key management	*<Report Findings Here>*					
3.5.2 Restrict access to cryptographic keys to the fewest number of custodians necessary.			☐	☐	☐	☐	☐
3.5.2 Examine user access lists to verify that access to keys is restricted to the fewest number of custodians necessary.	**Identify user access lists** examined.	*<Report Findings Here>*					
	Describe how the user access lists verified that access to keys is restricted to the fewest number of custodians necessary.	*<Report Findings Here>*					
3.5.3 Store secret and private keys used to encrypt/decrypt cardholder data in one (or more) of the following forms at all times: • Encrypted with a key-encrypting key that is at least as strong as the data-encrypting key, and that is stored separately from the data-encrypting key. • Within a secure cryptographic device (such as a hardware/host security module (HSM) or PTS-approved point-of-interaction device). • As at least two full-length key components or key shares, in accordance with an industry-accepted method. ***Note:** It is not required that public keys be stored in one of these forms.*			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
3.5.3.a Examine documented procedures to verify that cryptographic keys used to encrypt/decrypt cardholder data must only exist in one (or more) of the following forms at all times. • Encrypted with a key-encrypting key that is at least as strong as the data-encrypting key, and that is stored separately from the data-encrypting key. • Within a secure cryptographic device (such as a hardware (host) security module (HSM) or PTS-approved point-of-interaction device). • As key components or key shares, in accordance with an industry-accepted method.	**Identify the documented procedures** examined to verify that cryptographic keys used to encrypt/decrypt cardholder data must only exist in one (or more) of the following forms at all times. • Encrypted with a key-encrypting key that is at least as strong as the data-encrypting key, and that is stored separately from the data-encrypting key. • Within a secure cryptographic device (such as a hardware (host) security module (HSM) or PTS-approved point-of-interaction device). • As key components or key shares, in accordance with an industry-accepted method.	*<Report Findings Here>*					
3.5.3.b Examine system configurations and key storage locations to verify that cryptographic keys used to encrypt/decrypt cardholder data exist in one, (or more), of the following form at all times. • Encrypted with a key-encrypting key. • Within a secure cryptographic device (such as a hardware (host) security module (HSM) or PTS-approved point-of-interaction device). • As key components or key shares, in accordance with an industry-accepted method.	**Provide the name of the assessor** who attests that all locations where keys are stored were identified.	*<Report Findings Here>*					
	Describe how system configurations and key storage locations verified that cryptographic keys used to encrypt/decrypt cardholder data must only exist in one (or more) of the following forms at all times. • Encrypted with a key-encrypting key that is at least as strong as the data-encrypting key, and that is stored separately from the data-encrypting key. • Within a secure cryptographic device (such as a hardware (host) security module (HSM) or PTS-approved point-of-interaction device). • As key components or key shares, in accordance with an industry-accepted method.	*<Report Findings Here>*					
3.5.3.c Wherever key-encrypting keys are used, examine system configurations and key storage locations to verify:	**Describe how** system configurations and key storage locations verified that, wherever key-encrypting keys are used:						
	• Key-encrypting keys are at least as strong as the data-encrypting keys they protect.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
• Key-encrypting keys are at least as strong as the data-encrypting keys they protect. • Key-encrypting keys are stored separately from data-encrypting keys.	• Key-encrypting keys are stored separately from data-encrypting keys.	*<Report Findings Here>*					
3.5.4 Store cryptographic keys in the fewest possible locations.			☐	☐	☐	☐	☐
3.5.4 Examine key storage locations and observe processes to verify that keys are stored in the fewest possible locations.	**Describe how** key storage locations and the observed processes verified that keys are stored in the fewest possible locations.	*<Report Findings Here>*					
3.6 Fully document and implement all key-management processes and procedures for cryptographic keys used for encryption of cardholder data, including the following: *Note: Numerous industry standards for key management are available from various resources including NIST, which can be found at http://csrc.nist.gov.*			☐	☐	☐	☐	☐
3.6.a *Additional Procedure for service provider assessments only*: If the service provider shares keys with their customers for transmission or storage of cardholder data, examine the documentation that the service provider provides to their customers to verify that it includes guidance on how to securely transmit, store, and update customers' keys, in accordance with Requirements 3.6.1 through 3.6.8 below.	**Indicate whether** the assessed entity is a service provider that shares keys with their customers for transmission or storage of cardholder data. **(yes/no)**	*<Report Findings Here>*					
	If "yes," **Identify the document** that the service provider provides to their customers examined to verify that it includes guidance on how to securely transmit, store and update customers' keys, in accordance with Requirements 3.6.1 through 3.6.8 below.	*<Report Findings Here>*					
3.6.b Examine the key-management procedures and processes for keys used for encryption of cardholder data and perform the following:							
3.6.1 Generation of strong cryptographic keys.			☐	☐	☐	☐	☐
3.6.1.a Verify that key-management procedures specify how to generate strong keys.	**Identify the documented key-management procedures** examined to verify procedures specify how to generate strong keys.	*<Report Findings Here>*					
3.6.1.b Observe the procedures for generating keys to verify that strong keys are generated.	**Describe how** the procedures for generating keys were observed to verify that strong keys are generated.	*<Report Findings Here>*					
3.6.2 Secure cryptographic key distribution.			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
3.6.2.a Verify that key-management procedures specify how to securely distribute keys.	**Identify the documented key-management procedures** examined to verify procedures specify how to securely distribute keys.	*<Report Findings Here>*					
3.6.2.b Observe the method for distributing keys to verify that keys are distributed securely.	**Describe how** the method for distributing keys was observed to verify that keys are distributed securely.	*<Report Findings Here>*					
3.6.3 Secure cryptographic key storage.			☐	☐	☐	☐	☐
3.6.3.a Verify that key-management procedures specify how to securely store keys.	**Identify the documented key-management procedures** examined to verify procedures specify how to securely store keys.	*<Report Findings Here>*					
3.6.3.b Observe the method for storing keys to verify that keys are stored securely.	**Describe how** the method for storing keys was observed to verify that keys are stored securely.	*<Report Findings Here>*					
3.6.4 Cryptographic key changes for keys that have reached the end of their cryptoperiod (for example, after a defined period of time has passed and/or after a certain amount of cipher-text has been produced by a given key), as defined by the associated application vendor or key owner, and based on industry best practices and guidelines (for example, NIST Special Publication 800-57).			☐	☐	☐	☐	☐
3.6.4.a Verify that key-management procedures include a defined cryptoperiod for each key type in use and define a process for key changes at the end of the defined cryptoperiod(s).	**Identify the documented key-management procedures** examined to verify procedures include a defined cryptoperiod for each key type in use and define a process for key changes at the end of the defined cryptoperiod(s).	*<Report Findings Here>*					
3.6.4.b Interview personnel to verify that keys are changed at the end of the defined cryptoperiod(s).	**Identify** the responsible **personnel interviewed** who confirm that keys are changed at the end of the defined cryptoperiod(s).	*<Report Findings Here>*					
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 component), or keys are suspected of being compromised. *Note: If retired or replaced cryptographic keys need to be retained, these keys must be securely archived (for example, by using a key-encryption key). Archived cryptographic keys should only be used for decryption/verification purposes.*			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
3.6.5.a Verify that key-management procedures specify processes for the following: • The retirement or replacement of keys when the integrity of the key has been weakened. • The replacement of known or suspected compromised keys. • Any keys retained after retiring or replacing are not used for encryption operations.	**Identify the documented key-management procedures** examined to verify that key-management processes specify the following: • The retirement or replacement of keys when the integrity of the key has been weakened. • The replacement of known or suspected compromised keys. • Any keys retained after retiring or replacing are not used for encryption operations.	*<Report Findings Here>*					
3.6.5.b Interview personnel to verify the following processes are implemented: • Keys are retired or replaced as necessary when the integrity of the key has been weakened, including when someone with knowledge of the key leaves the company. • Keys are replaced if known or suspected to be compromised. • Any keys retained after retiring or replacing are not used for encryption operations.	**Identify the responsible personnel** interviewed who confirm that the following processes are implemented: • Keys are retired or replaced as necessary when the integrity of the key has been weakened, including when someone with knowledge of the key leaves the company. • Keys are replaced if known or suspected to be compromised. • Any keys retained after retiring or replacing are not used for encryption operations.	*<Report Findings Here>*					
3.6.6 If manual clear-text cryptographic key-management operations are used, these operations must be managed using split knowledge and dual control. ***Note:*** Examples of manual key-management operations include, but are not limited to: key generation, transmission, loading, storage and destruction.			☐	☐	☐	☐	☐
3.6.6.a Verify that manual clear-text key-management procedures specify processes for the use of the following: • Split knowledge of keys, such that key components are under the control of at	**Indicate whether** manual clear-text cryptographic key-management operations are used. **(yes/no)**	*<Report Findings Here>*					
	If "no," mark the remainder of 3.6.6.a and 3.6.6.b as "Not Applicable." *If "yes," complete 3.6.6.a and 3.6.6.b.*						

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
least two people who only have knowledge of their own key components; AND • Dual control of keys, such that at least two people are required to perform any key-management operations and no one person has access to the authentication materials (for example, passwords or keys) of another.	**Identify the documented key-management procedures** examined to verify that manual clear-text key-management procedures define processes for the use of the following: • Split knowledge of keys, such that key components are under the control of at least two people who only have knowledge of their own key components; AND • Dual control of keys, such that at least two people are required to perform any key-management operations and no one person has access to the authentication materials of another.	*<Report Findings Here>*					
3.6.6.b Interview personnel and/or observe processes to verify that manual clear-text keys are managed with: • Split knowledge, AND • Dual control	**Identify the responsible personnel** interviewed for this testing procedure, if applicable.	*<Report Findings Here>*					
	For the interview, **summarize the relevant details discussed and/or describe how** processes were observed to verify that manual clear-text keys are managed with:						
	• Split knowledge	*<Report Findings Here>*					
	• Dual Control	*<Report Findings Here>*					
3.6.7 Prevention of unauthorized substitution of cryptographic keys.			☐	☐	☐	☐	☐
3.6.7.a Verify that key-management procedures specify processes to prevent unauthorized substitution of keys.	**Identify the documented key-management procedures** examined to verify that key-management procedures specify processes to prevent unauthorized substitution of keys.	*<Report Findings Here>*					
3.6.7.b Interview personnel and/or observe process to verify that unauthorized substitution of keys is prevented.	**Identify the responsible personnel** interviewed for this testing procedure, if applicable.	*<Report Findings Here>*					
	For the interview, **summarize the relevant details discussed and/or describe how** processes were observed to verify that unauthorized substitution of keys is prevented.	*<Report Findings Here>*					
3.6.8 Requirement for cryptographic key custodians to formally acknowledge that they understand and accept their key-custodian responsibilities.			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
3.6.8.a Verify that key-management procedures specify processes for key custodians to acknowledge (in writing or electronically) that they understand and accept their key-custodian responsibilities.	**Identify the documented key-management procedures** examined to verify that key-management procedures specify processes for key custodians to acknowledge that they understand and accept their key-custodian responsibilities.	*<Report Findings Here>*					
3.6.8.b Observe documentation or other evidence showing that key custodians have acknowledged (in writing or electronically) that they understand and accept their key-custodian responsibilities.	**Describe how** key custodian acknowledgements or other evidence were observed to verify that key custodians have acknowledged that they understand and accept their key-custodian responsibilities.	*<Report Findings Here>*					
3.7 Ensure that security policies and operational procedures for protecting stored cardholder data are documented, in use, and known to all affected parties.			☐	☐	☐	☐	☐
3.7 Examine documentation and interview personnel to verify that security policies and operational procedures for protecting stored cardholder data are: • Documented, • In use, and • Known to all affected parties	**Identify the document** reviewed to verify that security policies and operational procedures for protecting stored cardholder data are documented.	<Report Findings Here>					
	Identify the responsible personnel interviewed who confirm that the above documented security policies and operational procedures for protecting stored cardholder data are: • In use • Known to all affected parties	<Report Findings Here>					

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

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/CCW	N/A	Not Tested	Not in Place
4.1 Use strong cryptography and security protocols to safeguard sensitive cardholder data during transmission over open, public networks, including the following: • Only trusted keys and certificates are accepted. • The protocol in use only supports secure versions or configurations. • The encryption strength is appropriate for the encryption methodology in use. *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)* • *General Packet Radio Service (GPRS)* • *Satellite communications*			☐	☐	☐	☐	☐
4.1.a Identify all locations where cardholder data is transmitted or received over open, public networks. Examine documented standards and compare to system configurations to verify the use of security protocols and strong cryptography for all locations.	**Identify** all locations where cardholder data is transmitted or received over open, public networks.	*<Report Findings Here>*					
	Identify the documented standards examined.	*<Report Findings Here>*					
	Describe how the documented standards and system configurations both verified the use of:						
	• Security protocols for all locations	*<Report Findings Here>*					
	• Strong cryptography for all locations	*<Report Findings Here>*					
4.1.b Review documented policies and procedures to verify processes are specified for the following: • For acceptance of only trusted keys and/or certificates. • For the protocol in use to only support secure versions and configurations (that insecure versions or configurations are not supported). • For implementation of proper encryption strength per the encryption methodology in use.	**Identify the document** reviewed to verify that processes are specified for the following: • For acceptance of only trusted keys and/or certificates. • For the protocol in use to only support secure versions and configurations (that insecure versions or configurations are not supported). • For implementation of proper encryption strength per the encryption methodology in use.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/CCW	N/A	Not Tested	Not in Place
4.1.c Select and observe a sample of inbound and outbound transmissions as they occur (for example, by observing system processes or network traffic) to verify that all cardholder data is encrypted with strong cryptography during transit.	**Describe the sample** of inbound and outbound transmissions that were observed as they occurred.	*<Report Findings Here>*					
	Describe how the sample of inbound and outbound transmissions verified that all cardholder data is encrypted with strong cryptography during transit.	*<Report Findings Here>*					
4.1.d Examine keys and certificates to verify that only trusted keys and/or certificates are accepted.	*For all instances where cardholder data is transmitted or received over open, public networks:*						
	Describe the mechanisms used to ensure that only trusted keys and/or certificates are accepted.	*<Report Findings Here>*					
	Describe how the mechanisms were observed to accept only trusted keys and/or certificates.	*<Report Findings Here>*					
4.1.e Examine system configurations to verify that the protocol is implemented to use only secure configurations and does not support insecure versions or configurations.	*For all instances where cardholder data Is transmitted or received over open, public networks,* **describe how** system configurations verified that the protocol:						
	• Is implemented to use only secure configurations.	*<Report Findings Here>*					
	• Does not support insecure versions or configurations.	*<Report Findings Here>*					
4.1.f Examine system configurations to verify that the proper encryption strength is implemented for the encryption methodology in use. (Check vendor recommendations/best practices.)	*For each encryption methodology in use,*						
	Identify vendor recommendations/best practices for encryption strength.	*<Report Findings Here>*					
	Identify the encryption strength observed to be implemented.	*<Report Findings Here>*					
4.1.g For TLS implementations, examine system configurations to verify that TLS is 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.*	**Indicate whether** TLS is implemented to encrypt cardholder data over open, public networks. **(yes/no)** *If 'no,' mark the remainder of 4.1.g as 'not applicable.'*	*<Report Findings Here>*					
	If "yes," for all instances where TLS is used to encrypt cardholder data over open, public networks, **describe how** system configurations verified that TLS is enabled whenever cardholder data is transmitted or received.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/CCW	N/A	Not Tested	Not in Place
4.1.1 Ensure wireless networks transmitting cardholder data or connected to the cardholder data environment, use industry best practices to implement strong encryption for authentication and transmission.			☐	☐	☐	☐	☐
4.1.1 Identify all wireless networks transmitting cardholder data or connected to the cardholder data environment. Examine documented standards and compare to system configuration settings to verify the following for all wireless networks identified: • Industry best practices are used to implement strong encryption for authentication and transmission. • Weak encryption (for example, WEP, SSL) is not used as a security control for authentication or transmission.	**Identify** all wireless networks transmitting cardholder data or connected to the cardholder data environment.	*<Report Findings Here>*					
	Identify the documented standards examined.	*<Report Findings Here>*					
	Describe how the documented standards and system configuration settings both verified the following for all wireless networks identified:						
	• Industry best practices are used to implement strong encryption for authentication and transmission.	*<Report Findings Here>*					
	• Weak encryption is not used as a security control for authentication or transmission.	*<Report Findings Here>*					
4.2 Never send unprotected PANs by end-user messaging technologies (for example, e-mail, instant messaging, SMS, chat, etc.).			☐	☐	☐	☐	☐
4.2.a If end-user messaging technologies are used to send cardholder data, observe processes for sending PAN and examine a sample of outbound transmissions as they occur to verify that PAN is rendered unreadable or secured with strong cryptography whenever it is sent via end-user messaging technologies.	**Indicate whether** end-user messaging technologies are used to send cardholder data. **(yes/no)**	*<Report Findings Here>*					
	If "no," mark the remainder of 4.2.a as "Not Applicable" and proceed to 4.2.b. *If "yes," complete the following:*						
	Describe how processes for sending PAN were observed to verify that PAN is rendered unreadable or secured with strong cryptography whenever it is sent via end-user messaging technologies.	*<Report Findings Here>*					
	Describe the sample of outbound transmissions that were observed as they occurred.	*<Report Findings Here>*					
	Describe how the sample of outbound transmissions verified that PAN is rendered unreadable or secured with strong cryptography whenever it is sent via end-user messaging technologies.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/CCW	N/A	Not Tested	Not in Place
4.2.b Review written policies to verify the existence of a policy stating that unprotected PANs are not to be sent via end-user messaging technologies.	**Identify the policy document** that prohibits PAN from being sent via end-user messaging technologies under any circumstances.	*<Report Findings Here>*					
4.3 Ensure that security policies and operational procedures for encrypting transmissions of cardholder data are documented, in use, and known to all affected parties.			☐	☐	☐	☐	☐
4.3 Examine documentation and interview personnel to verify that security policies and operational procedures for encrypting transmissions of cardholder data are: • Documented, • In use, and • Known to all affected parties.	**Identify the document** reviewed to verify that security policies and operational procedures for encrypting transmissions of cardholder data are documented.	<Report Findings Here>					
	Identify the responsible personnel interviewed who confirm that the above documented security policies and operational procedures for encrypting transmissions of cardholder data are: • In use • Known to all affected parties	*<Report Findings Here>*					

Maintain a Vulnerability Management Program

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

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	**In Place w/ CCW**	**N/A**	**Not Tested**	**Not in Place**
5.1 Deploy anti-virus software on all systems commonly affected by malicious software (particularly personal computers and servers).			☐	☐	☐	☐	☐
5.1 For a sample of system components including all operating system types commonly affected by malicious software, verify that anti-virus software is deployed if applicable anti-virus technology exists.	**Identify the sample** of system components (including all operating system types commonly affected by malicious software) selected for this testing procedure.	*<Report Findings Here>*					
	For each item in the sample, **describe how** anti-virus software was observed to be deployed.	*<Report Findings Here>*					
5.1.1 Ensure that anti-virus programs are capable of detecting, removing, and protecting against all known types of malicious software.			☐	☐	☐	☐	☐
5.1.1 Review vendor documentation and examine anti-virus configurations to verify that anti-virus programs; • Detect all known types of malicious software, • Remove all known types of malicious software, and • Protect against all known types of malicious software. *(Examples of types of malicious software include viruses, Trojans, worms, spyware, adware, and rootkits).*	**Identify the vendor documentation** reviewed to verify that anti-virus programs: • Detect all known types of malicious software, • Remove all known types of malicious software, and • Protect against all known types of malicious software.	*<Report Findings Here>*					
	Describe how anti-virus configurations verified that anti-virus programs:						
	• Detect all known types of malicious software,	*<Report Findings Here>*					
	• Remove all known types of malicious software, and	*<Report Findings Here>*					
	• Protect against all known types of malicious software.	*<Report Findings Here>*					
5.1.2 For systems considered to be not commonly affected by malicious software, perform periodic evaluations to identify and evaluate evolving malware threats in order to confirm whether such systems continue to not require anti-virus software.			☐	☐	☐	☐	☐
5.1.2 Interview personnel to verify that evolving malware threats are monitored	**Identify the responsible personnel** interviewed for this testing procedure.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
and evaluated for systems not currently considered to be commonly affected by malicious software, in order to confirm whether such systems continue to not require anti-virus software.	For the interview, **summarize the relevant details discussed** to verify that evolving malware threats are monitored and evaluated for systems not currently considered to be commonly affected by malicious software, and that such systems continue to not require anti-virus software.	*<Report Findings Here>*					
5.2 Ensure that all anti-virus mechanisms are maintained as follows: • Are kept current. • Perform periodic scans. • Generate audit logs which are retained per PCI DSS Requirement 10.7.			☐	☐	☐	☐	☐
5.2.a Examine policies and procedures to verify that anti-virus software and definitions are required to be kept up-to-date.	**Identify the documented policies and procedures** examined to verify that anti-virus software and definitions are required to be kept up to date.	*<Report Findings Here>*					
5.2.b Examine anti-virus configurations, including the master installation of the software, to verify anti-virus mechanisms are: • Configured to perform automatic updates, and • Configured to perform periodic scans.	**Describe how** anti-virus configurations, including the master installation of the software, verified anti-virus mechanisms are:						
	• Configured to perform automatic updates, and	*<Report Findings Here>*					
	• Configured to perform periodic scans.	*<Report Findings Here>*					
5.2.c Examine a sample of system components, including all operating system types commonly affected by malicious software, to verify that: • The anti-virus software and definitions are current. • Periodic scans are performed.	**Identify the sample** of system components (including all operating system types commonly affected by malicious software) selected for this testing procedure.	*<Report Findings Here>*					
	Describe how the system components verified that:						
	• The anti-virus software and definitions are current.	*<Report Findings Here>*					
	• Periodic scans are performed.	*<Report Findings Here>*					
5.2.d Examine anti-virus configurations, including the master installation of the	**Identify the sample** of system components selected for this testing procedure.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
software and a sample of system components, to verify that:	For each item in the sample, **describe how** anti-virus configurations, including the master installation of the software, verified that:						
• Anti-virus software log generation is enabled, and	• Anti-virus software log generation is enabled, and.	*<Report Findings Here>*					
• Logs are retained in accordance with PCI DSS Requirement 10.7.	• Logs are retained in accordance with PCI DSS Requirement 10.7.	*<Report Findings Here>*					
5.3 Ensure that anti-virus mechanisms are actively running and cannot be disabled or altered by users, unless specifically authorized by management on a case-by-case basis for a limited time period. *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.*			☐	☐	☐	☐	☐
5.3.a Examine anti-virus configurations, including the master installation of the software and a sample of system components, to verify the anti-virus software is actively running.	**Identify the sample** of system components selected for this testing procedure.	*<Report Findings Here>*					
	For each item in the sample, **describe how** anti-virus configurations, including the master installation of the software, verified that the anti-virus software is actively running.	*<Report Findings Here>*					
5.3.b Examine anti-virus configurations, including the master installation of the software and a sample of system components, to verify that the anti-virus software cannot be disabled or altered by users.	For each item in the sample from 5.3.a, **describe how** anti-virus configurations, including the master installation of the software, verified that the anti-virus software cannot be disabled or altered by users.	*<Report Findings Here>*					
5.3.c Interview responsible personnel and observe processes to verify that anti-virus software cannot be disabled or altered by users, unless specifically authorized by management on a case-by-case basis for a limited time period.	**Identify the responsible personnel** interviewed who confirm that anti-virus software cannot be disabled or altered by users, unless specifically authorized by management on a case-by-case basis for a limited time period.	*<Report Findings Here>*					
	Describe how processes were observed to verify that anti-virus software cannot be disabled or altered by users, unless specifically authorized by management on a case-by-case basis for a limited time period.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
5.4 Ensure that security policies and operational procedures for protecting systems against malware are documented, in use, and known to all affected parties.			☐	☐	☐	☐	☐
5.4 Examine documentation and interview personnel to verify that security policies and operational procedures for protecting systems against malware are: • Documented, • In use, and • Known to all affected parties.	**Identify the document reviewed to** verify that security policies and operational procedures for protecting systems against malware are documented.	<Report Findings Here>					
	Identify the responsible personnel interviewed who confirm that the above documented security policies and operational procedures for protecting systems against malware are: • In use • Known to all affected parties	*<Report Findings Here>*					

Requirement 6: Develop and maintain secure systems and applications

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
6.1 Establish a process to identify security vulnerabilities, using reputable outside sources for security vulnerability information, and assign a risk ranking (for example, as "high," "medium," or "low") to newly discovered security 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.*			☐	☐	☐	☐	☐
6.1.a Examine policies and procedures to verify that processes are defined for the following: • To identify new security vulnerabilities. • To assign a risk ranking to vulnerabilities that includes identification of all "high risk" and "critical" vulnerabilities. • To include using reputable outside sources for security vulnerability information.	**Identify the documented policies and procedures** examined to confirm that processes are defined: • To identify new security vulnerabilities. • To assign a risk ranking to vulnerabilities that includes identification of all "high risk" and "critical" vulnerabilities. • To include using reputable outside sources for security vulnerability information.	*<Report Findings Here>*					
6.1.b Interview responsible personnel and observe processes to verify that: • New security vulnerabilities are identified. • A risk ranking is assigned to vulnerabilities that includes identification of all "high" risk and "critical" vulnerabilities.	**Identify the responsible personnel** interviewed who confirm that: • New security vulnerabilities are identified. • A risk ranking is assigned to vulnerabilities that includes identification of all "high" risk and "critical" vulnerabilities. • Processes to identify new security vulnerabilities include using reputable outside sources for security vulnerability information.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
• Processes to identify new security vulnerabilities include using reputable outside sources for security vulnerability information.	**Describe how** processes were observed to verify that:						
	• New security vulnerabilities are identified.	*<Report Findings Here>*					
	• A risk ranking is assigned to vulnerabilities to include identification of all "high" risk and "critical" vulnerabilities.	*<Report Findings Here>*					
	• Processes to identify new security vulnerabilities include using reputable outside sources for security vulnerability information.	*<Report Findings Here>*					
	Identify the outside sources used.	*<Report Findings Here>*					
6.2 Ensure that all system components and software are protected from known vulnerabilities by installing applicable vendor-supplied security patches. Install critical security patches within one month of release. *Note: Critical security patches should be identified according to the risk ranking process defined in Requirement 6.1.*			☐	☐	☐	☐	☐
6.2.a Examine policies and procedures related to security-patch installation to verify processes are defined for: • Installation of applicable critical vendor-supplied security patches within one month of release. • Installation of all applicable vendor-supplied security patches within an appropriate time frame (for example, within three months).	**Identify the documented policies and procedures** related to security-patch installation examined to verify processes are defined for: • Installation of applicable critical vendor-supplied security patches within one month of release. • Installation of all applicable vendor-supplied security patches within an appropriate time frame.	*<Report Findings Here>*					
6.2.b For a sample of system components and related software, compare the list of security patches installed on each system to the most recent vendor security-patch list, to verify the following: • That applicable critical vendor-supplied security patches are installed within one month of release.	**Identify the sample** of system components and related software selected for this testing procedure.	*<Report Findings Here>*					
	Identify the vendor security patch list reviewed.	*<Report Findings Here>*					
	For each item in the sample, **describe how** the list of security patches installed on each system was compared to the most recent vendor security-patch list to verify that:						
	• Applicable critical vendor-supplied security patches are installed within one month of release.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
• All applicable vendor-supplied security patches are installed within an appropriate time frame (for example, within three months).	• All applicable vendor-supplied security patches are installed within an appropriate time frame.	*<Report Findings Here>*					
6.3 Develop internal and external software applications (including web-based administrative access to applications) securely, as follows: • In accordance with PCI DSS (for example, secure authentication and logging). • Based on industry standards and/or best practices. • Incorporate information security throughout the software development life cycle. *Note: this applies to all software developed internally as well as bespoke or custom software developed by a third party.*			☐	☐	☐	☐	☐
6.3.a Examine written software-development processes to verify that the processes are based on industry standards and/or best practices.	**Identify the document** examined to verify that software-development processes are based on industry standards and/or best practices.	*<Report Findings Here>*					
6.3.b Examine written software-development processes to verify that information security is included throughout the life cycle.	**Identify the documented software-development processes** examined to verify that information security is included throughout the life cycle.	*<Report Findings Here>*					
6.3.c Examine written software-development processes to verify that software applications are developed in accordance with PCI DSS.	**Identify the documented software-development processes** examined to verify that software applications are developed in accordance with PCI DSS.	*<Report Findings Here>*					
6.3.d Interview software developers to verify that written software development processes are implemented.	**Identify the software developers** interviewed who confirm that written software-development processes are implemented.	*<Report Findings Here>*					
6.3.1 Remove development, test and/or custom application accounts, user IDs, and passwords before applications become active or are released to customers.			☐	☐	☐	☐	☐
6.3.1 Examine written software-development procedures and interview responsible personnel to verify that pre-production and/or custom application accounts, user IDs and/or passwords are	**Identify the documented software-development processes** examined to verify processes define that pre-production and/or custom application accounts, user IDs and/or passwords are removed before an application goes into production or is released to customers.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
removed before an application goes into production or is released to customers.	**Identify the responsible personnel** interviewed who confirm that pre-production and/or custom application accounts, user IDs and/or passwords are removed before an application goes into production or is released to customers.	*<Report Findings Here>*					
6.3.2 Review custom code prior to release to production or customers in order to identify any potential coding vulnerability (using either manual or automated processes) to include at least the following: • Code changes are reviewed by individuals other than the originating code author, and by individuals knowledgeable about code review techniques and secure coding practices. • Code reviews ensure code is developed according to secure coding guidelines. • Appropriate corrections are implemented prior to release. • Code review results are reviewed and approved by management prior to release. *Note: This requirement for code reviews applies to all custom code (both internal and public-facing), as part of the system development life cycle.* *Code reviews can be conducted by knowledgeable internal personnel or third parties. Public-facing web applications are also subject to additional controls, to address ongoing threats and vulnerabilities after implementation, as defined at PCI DSS Requirement 6.6.*			☐	☐	☐	☐	☐
6.3.2.a Examine written software development procedures and interview responsible personnel to verify that all custom application code changes must be reviewed (using either manual or automated processes) as follows: • Code changes are reviewed by individuals other than the originating code author, and by individuals who are knowledgeable in code review techniques and secure coding practices. • Code reviews ensure code is developed according to secure coding guidelines (see PCI DSS Requirement 6.5). • Appropriate corrections are implemented prior to release.	**Identify the documented software-development processes** examined to verify processes define that all custom application code changes must be reviewed (using either manual or automated processes) as follows: • Code changes are reviewed by individuals other than the originating code author, and by individuals who are knowledgeable in code review techniques and secure coding practices. • Code reviews ensure code is developed according to secure coding guidelines (see PCI DSS Requirement 6.5). • Appropriate corrections are implemented prior to release. • Code-review results are reviewed and approved by management prior to release.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
• Code-review results are reviewed and approved by management prior to release.	**Identify the responsible personnel** interviewed for this testing procedure who confirm that all custom application code changes are reviewed as follows: • Code changes are reviewed by individuals other than the originating code author, and by individuals who are knowledgeable in code-review techniques and secure coding practices. • Code reviews ensure code is developed according to secure coding guidelines (see PCI DSS Requirement 6.5). • Appropriate corrections are implemented prior to release. • Code-review results are reviewed and approved by management prior to release.	*<Report Findings Here>*					
6.3.2.b Select a sample of recent custom application changes and verify that custom application code is reviewed according to 6.3.2.a, above.	**Identify the sample** of recent custom application changes selected for this testing procedure.	*<Report Findings Here>*					
	For each item in the sample, **describe how** code review processes were observed to verify custom application code is reviewed as follows:						
	• Code changes are reviewed by individuals other than the originating code author.	*<Report Findings Here>*					
	• Code changes are reviewed by individuals who are knowledgeable in code-review techniques and secure coding practices.	*<Report Findings Here>*					
	• Code reviews ensure code is developed according to secure coding guidelines (see PCI DSS Requirement 6.5).	*<Report Findings Here>*					
	• Appropriate corrections are implemented prior to release.	*<Report Findings Here>*					
	• Code-review results are reviewed and approved by management prior to release.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
6.4 Follow change control processes and procedures for all changes to system components. The processes must include the following:			☐	☐	☐	☐	☐
6.4 Examine policies and procedures to verify the following are defined: • Development/test environments are separate from production environments with access control in place to enforce separation. • A separation of duties between personnel assigned to the development/test environments and those assigned to the production environment. • Production data (live PANs) are not used for testing or development. • Test data and accounts are removed before a production system becomes active. • Change control procedures related to implementing security patches and software modifications are documented.	**Identify the documented policies and procedures** examined to verify that the following are defined: • Development/test environments are separate from production environments with access control in place to enforce separation. • A separation of duties between personnel assigned to the development/test environments and those assigned to the production environment. • Production data (live PANs) are not used for testing or development. • Test data and accounts are removed before a production system becomes active. • Change-control procedures related to implementing security patches and software modifications are documented.	*<Report Findings Here>*					
6.4.1 Separate development/test environments from production environments, and enforce the separation with access controls.			☐	☐	☐	☐	☐
6.4.1.a Examine network documentation and network device configurations to verify that the development/test environments are separate from the production environment(s).	**Identify the network documentation** examined to verify that the development/test environments are separate from the production environment(s).	*<Report Findings Here>*					
	Describe how network device configurations verified that the development/test environments are separate from the production environment(s).	*<Report Findings Here>*					
6.4.1.b Examine access controls settings to verify that access controls are in place	**Identify the access control settings** examined for this testing procedure.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
to enforce separation between the development/test environments and the production environment(s).	**Describe how** the access control settings verified that access controls are in place to enforce separation between the development/test environments and the production environment(s).	*<Report Findings Here>*					
6.4.2 Separation of duties between development/test and production environments.			☐	☐	☐	☐	☐
6.4.2 Observe processes and interview personnel assigned to development/test environments and personnel assigned to production environments to verify that separation of duties is in place between development/test environments and the production environment.	**Identify the personnel assigned to development/test environments** interviewed who confirm that separation of duties is in place between development/test environments and the production environment.	*<Report Findings Here>*					
	Identify the personnel assigned to production environments interviewed who confirm that separation of duties is in place between development/test environments and the production environment.	*<Report Findings Here>*					
	Describe how processes were observed to verify that separation of duties is in place between development/test environments and the production environment.	*<Report Findings Here>*					
6.4.3 Production data (live PANs) are not used for testing or development.			☐	☐	☐	☐	☐
6.4.3.a Observe testing processes and interview personnel to verify procedures are in place to ensure production data (live PANs) are not used for testing or development.	**Identify the responsible personnel** interviewed who confirm that procedures are in place to ensure production data (live PANs) are not used for testing or development.	*<Report Findings Here>*					
	Describe how testing processes were observed to verify procedures are in place to ensure production data (live PANs) are not used for testing.	*<Report Findings Here>*					
	Describe how testing processes were observed to verify procedures are in place to ensure production data (live PANs) are not used for development.	*<Report Findings Here>*					
6.4.3.b Examine a sample of test data to verify production data (live PANs) is not used for testing or development.	**Describe how** a sample of test data was examined to verify production data (live PANs) is not used for testing.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
	Describe how a sample of test data was examined to verify production data (live PANs) is not used for development.	*<Report Findings Here>*					
6.4.4 Removal of test data and accounts from system components before the system becomes active / goes into production.			☐	☐	☐	☐	☐
6.4.4.a Observe testing processes and interview personnel to verify test data and accounts are removed before a production system becomes active.	**Identify the responsible personnel** interviewed who confirm that test data and accounts are removed before a production system becomes active.	*<Report Findings Here>*					
	Describe how testing processes were observed to verify that test data is removed before a production system becomes active.	*<Report Findings Here>*					
	Describe how testing processes were observed to verify that test accounts are removed before a production system becomes active.	*<Report Findings Here>*					
6.4.4.b Examine a sample of data and accounts from production systems recently installed or updated to verify test data and accounts are removed before the system becomes active.	**Describe how** the sampled data examined verified that test data is removed before the system becomes active.	*<Report Findings Here>*					
	Describe how the sampled data examined verified that test accounts are removed before the system becomes active.	*<Report Findings Here>*					
6.4.5 Change control procedures must include the following:			☐	☐	☐	☐	☐
6.4.5.a Examine documented change-control procedures and verify procedures are defined for: • Documentation of impact. • Documented change approval by authorized parties. • Functionality testing to verify that the change does not adversely impact the security of the system. • Back-out procedures.	**Identify the documented change-control procedures** examined to verify procedures are defined for: • Documentation of impact. • Documented change approval by authorized parties. • Functionality testing to verify that the change does not adversely impact the security of the system. • Back-out procedures.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
6.4.5.b For a sample of system components, interview responsible personnel to determine recent changes. Trace those changes back to related change control documentation. For each change examined, perform the following:	**Identify the sample** of system components selected for this testing procedure.	*<Report Findings Here>*					
	Identify the responsible personnel interviewed to determine recent changes.	*<Report Findings Here>*					
	For each item in the sample, **identify the sample** of changes and the related change control documentation selected for this testing procedure (through 6.4.5.4).	*<Report Findings Here>*					
6.4.5.1 Documentation of impact.			☐	☐	☐	☐	☐
6.4.5.1 Verify that documentation of impact is included in the change control documentation for each sampled change.	*For each change from 6.4.5.b,* **describe how** the documentation of impact is included in the change control documentation for each sampled change.	*<Report Findings Here>*					
6.4.5.2 Documented change approval by authorized parties.			☐	☐	☐	☐	☐
6.4.5.2 Verify that documented approval by authorized parties is present for each sampled change.	*For each change from 6.4.5.b,* **describe how** documented approval by authorized parties is present in the change control documentation for each sampled change.	*<Report Findings Here>*					
6.4.5.3 Functionality testing to verify that the change does not adversely impact the security of the system.			☐	☐	☐	☐	☐
6.4.5.3.a For each sampled change, verify that functionality testing is performed to verify that the change does not adversely impact the security of the system.	*For each change from 6.4.5.b,* **describe how** the change control documentation confirmed that functionality testing is performed to verify that the change does not adversely impact the security of the system.	*<Report Findings Here>*					
6.4.5.3.b For custom code changes, verify that all updates are tested for compliance with PCI DSS Requirement 6.5 before being deployed into production.	**Identify the sample** of system components selected for this testing procedure.	*<Report Findings Here>*					
	For each item in the sample, **identify the sample** of custom code changes and the related change control documentation selected for this testing procedure.	*<Report Findings Here>*					
	For each change, **describe how** the change control documentation verified that updates are tested for compliance with PCI DSS Requirement 6.5 before being deployed into production.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
6.4.5.4 Back-out procedures.			☐	☐	☐	☐	☐
6.4.5.4 Verify that back-out procedures are prepared for each sampled change.	*For each change from 6.4.5.b,* **describe how** the change control documentation verified that back-out procedures are prepared.	*<Report Findings Here>*					
6.4.6 Upon completion of a significant change, all relevant PCI DSS requirements must be implemented on all new or changed systems and networks, and documentation updated as applicable.			☐	☐	☐	☐	☐
6.4.6 For a sample of significant changes, examine change records, interview personnel and observe the affected systems/networks to verify that applicable PCI DSS requirements were implemented and documentation updated as part of the change.	**Identify whether** a significant change occurred within the past 12 months. **(yes/no)** *If "yes," complete the following:* *If "no," mark the rest of 6.4.6 as "Not Applicable"*	*<Report Findings Here>*					
	Identify the responsible personnel interviewed for this testing procedure.	*<Report Findings Here>*					
	Identify the relevant documentation reviewed to verify that the documentation was updated as part of the change.	*<Report Findings Here>*					
	Identify the sample of change records examined for this testing procedure.	*<Report Findings Here>*					
	Identify the sample of systems/networks affected by the significant change.	*<Report Findings Here>*					
	For each sampled change, **describe how** the system/networks observed verified that applicable PCI DSS requirements were implemented and documentation updated as part of the change.						
	<Report Findings Here>						
6.5 Address common coding vulnerabilities in software-development processes as follows: • Train developers at least annually in up-to-date secure coding techniques, including how to avoid common coding vulnerabilities. • Develop applications based on secure coding guidelines. ***Note:*** *The vulnerabilities listed at 6.5.1 through 6.5.10 were current with industry best practices when this version of PCI DSS was published. However, as industry best practices for vulnerability management are updated (for example, the OWASP Guide, SANS CWE Top 25, CERT Secure Coding, etc.), the current best practices must be used for these requirements.*			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
6.5.a Examine software development policies and procedures to verify that up-to-date training in secure coding techniques is required for developers at least annually, based on industry best practices and guidance.	**Identify the document** reviewed to verify that up-to-date training in secure coding techniques is required for developers at least annually.	*<Report Findings Here>*					
	Identify the industry best practices and guidance on which the training is based.	*<Report Findings Here>*					
6.5.b Examine records of training to verify that software developers receive up-to-date training on secure coding techniques at least annually, including how to avoid common coding vulnerabilities	**Identify the records of training** that were examined to verify that software developers receive up-to-date training on secure coding techniques at least annually, including how to avoid common coding vulnerabilities.	*<Report Findings Here>*					
6.5.c Verify that processes are in place to protect applications from, at a minimum, the following vulnerabilities:	**Identify the software-development policies and procedures** examined to verify that processes are in place to protect applications from, at a minimum, the vulnerabilities from 6.5.1-6.5.10.	*<Report Findings Here>*					
	Identify the responsible personnel interviewed to verify that processes are in place to protect applications from, at a minimum, the vulnerabilities from 6.5.1-6.5.10.	*<Report Findings Here>*					
Note: Requirements 6.5.1 through 6.5.6, below, apply to all applications (internal or external):							
6.5.1 Injection flaws, particularly SQL injection. Also consider OS Command Injection, LDAP and XPath injection flaws as well as other injection flaws.			☐	☐	☐	☐	☐
6.5.1 Examine software-development policies and procedures and interview responsible personnel to verify that injection flaws are addressed by coding techniques that include: • Validating input to verify user data cannot modify meaning of commands and queries. • Utilizing parameterized queries.	*For the interviews at 6.5.c,* **summarize the relevant details** discussed to verify that injection flaws are addressed by coding techniques that include:						
	• Validating input to verify user data cannot modify meaning of commands and queries.	*<Report Findings Here>*					
	• Utilizing parameterized queries.	*<Report Findings Here>*					
6.5.2 Buffer overflow.			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
6.5.2 Examine software-development policies and procedures and interview responsible personnel to verify that buffer overflows are addressed by coding techniques that include: • Validating buffer boundaries. • Truncating input strings.	*For the interviews at 6.5.c,* **summarize the relevant details** discussed to verify that buffer overflows are addressed by coding techniques that include:						
	• Validating buffer boundaries.	*<Report Findings Here>*					
	• Truncating input strings.	*<Report Findings Here>*					
6.5.3 Insecure cryptographic storage.			☐	☐	☐	☐	☐
6.5.3 Examine software-development policies and procedures and interview responsible personnel to verify that insecure cryptographic storage is addressed by coding techniques that: • Prevent cryptographic flaws. • Use strong cryptographic algorithms and keys.	*For the interviews at 6.5.c,* **summarize the relevant details** discussed to verify that insecure cryptographic storage is addressed by coding techniques that:						
	• Prevent cryptographic flaws.	*<Report Findings Here>*					
	• Use strong cryptographic algorithms and keys.	*<Report Findings Here>*					
6.5.4 Insecure communications.			☐	☐	☐	☐	☐
6.5.4 Examine software-development policies and procedures and interview responsible personnel to verify that insecure communications are addressed by coding techniques that properly authenticate and encrypt all sensitive communications.	*For the interviews at 6.5.c,* **summarize the relevant details** discussed to verify that insecure communications are addressed by coding techniques that properly:						
	• Authenticate all sensitive communications.	*<Report Findings Here>*					
	• Encrypt all sensitive communications.	*<Report Findings Here>*					
6.5.5 Improper error handling.			☐	☐	☐	☐	☐
6.5.5 Examine software-development policies and procedures and interview responsible personnel to verify that improper error handling is addressed by coding techniques that do not leak information via error messages (for example, by returning generic rather than specific error details).	*For the interviews at 6.5.c,* **summarize the relevant details** discussed to verify that improper error handling is addressed by coding techniques that do not leak information via error messages.	*<Report Findings Here>*					
6.5.6 All "high risk" vulnerabilities identified in the vulnerability identification process (as defined in PCI DSS Requirement 6.1).			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
6.5.6 Examine software-development policies and procedures and interview responsible personnel to verify that coding techniques address any "high risk" vulnerabilities that could affect the application, as identified in PCI DSS Requirement 6.1.	*For the interviews at 6.5.c,* **summarize the relevant details** discussed to verify that coding techniques address any "high risk" vulnerabilities that could affect the application, as identified in PCI DSS Requirement 6.1.	*<Report Findings Here>*					
Note: *Requirements 6.5.7 through 6.5.10, below, apply to web applications and application interfaces (internal or external):*							
Indicate whether web applications and application interfaces are present. **(yes/no)** If "no," mark the below 6.5.7-6.5.10 as "Not Applicable." If "yes," **complete the following:**		*<Report Findings Here>*					
6.5.7 Cross-site scripting (XSS).			☐	☐	☐	☐	☐
6.5.7 Examine software-development policies and procedures and interview responsible personnel to verify that cross-site scripting (XSS) is addressed by coding techniques that include: • Validating all parameters before inclusion. • Utilizing context-sensitive escaping.	*For the interviews at 6.5.c,* **summarize the relevant details** discussed to verify that cross-site scripting (XSS) is addressed by coding techniques that include:						
	• Validating all parameters before inclusion.	*<Report Findings Here>*					
	• Utilizing context-sensitive escaping.	*<Report Findings Here>*					
6.5.8 Improper access control (such as insecure direct object references, failure to restrict URL access, directory traversal, and failure to restrict user access to functions).			☐	☐	☐	☐	☐
6.5.8 Examine software-development policies and procedures and interview responsible personnel to verify that improper access control—such as insecure direct object references, failure to restrict URL access, and directory traversal—is addressed by coding technique that include:	*For the interviews at 6.5.c,* **summarize the relevant details** discussed to verify that improper access control is addressed by coding techniques that include:						
	• Proper authentication of users.	*<Report Findings Here>*					
	• Sanitizing input.	*<Report Findings Here>*					
	• Not exposing internal object references to users.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
• Proper authentication of users. • Sanitizing input. • Not exposing internal object references to users. • User interfaces that do not permit access to unauthorized functions.	• User interfaces that do not permit access to unauthorized functions.	<Report Findings Here>					
6.5.9 Cross-site request forgery (CSRF).			☐	☐	☐	☐	☐
6.5.9 Examine software development policies and procedures and interview responsible personnel to verify that cross-site request forgery (CSRF) is addressed by coding techniques that ensure applications do not rely on authorization credentials and tokens automatically submitted by browsers.	*For the interviews at 6.5.c*, **summarize the relevant details** discussed to verify that cross-site request forgery (CSRF) is addressed by coding techniques that ensure applications do not rely on authorization credentials and tokens automatically submitted by browsers.	<Report Findings Here>					
6.5.10 Broken authentication and session management.			☐	☐	☐	☐	☐
6.5.10 Examine software development policies and procedures and interview responsible personnel to verify that broken authentication and session management are addressed via coding techniques that commonly include: • Flagging session tokens (for example, cookies) as "secure." • Not exposing session IDs in the URL. • Incorporating appropriate time-outs and rotation of session IDs after a successful login.	*For the interviews at 6.5.c,* **summarize the relevant details** discussed to verify that broken authentication and session management are addressed via coding techniques that commonly include:						
	• Flagging session tokens (for example, cookies) as "secure."	<Report Findings Here>					
	• Not exposing session IDs in the URL.	<Report Findings Here>					
	• Incorporating appropriate time-outs and rotation of session IDs after a successful login.	<Report Findings Here>					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
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. *Note: This assessment is not the same as the vulnerability scans performed for Requirement 11.2.* • Installing an automated technical solution that detects and prevents web-based attacks (for example, a web-application firewall) in front of public-facing web applications, to continually check all traffic.			☐	☐	☐	☐	☐
6.6 For *public-facing* web applications, ensure that *either* one of the following methods is in place as follows: • Examine documented processes, interview personnel, and examine records of application security assessments to verify that public-facing web applications are reviewed—using either manual or automated vulnerability security	For each public-facing web application, **identify which** of the two methods are implemented: • Web application vulnerability security assessments, AND/OR • Automated technical solution that detects and prevents web-based attacks, such as web application firewalls.	*<Report Findings Here>*					
	If application vulnerability security assessments are indicated above:						
	Describe the tools and/or methods used (manual or automated, or a combination of both).	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
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. • Examine the system configuration settings and interview responsible personnel to verify that an automated technical solution that detects and prevents web-based attacks (for example, a web-application firewall) is in place as follows: – Is situated in front of public-facing web applications to detect and prevent web-based attacks.	**Identify the documented processes** that were examined to verify that public-facing web applications are reviewed using the tools and/or methods indicated above, 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.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
– 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.	**Identify the responsible personnel** interviewed who confirm that public-facing web applications are reviewed, 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.	*<Report Findings Here>*					
	Identify the records of application vulnerability security assessments examined for this testing procedure.	*<Report Findings Here>*					
	Describe how the records of application vulnerability security assessments verified that public-facing web applications are reviewed as follows:						
	• At least annually.	*<Report Findings Here>*					
	• After any changes.	*<Report Findings Here>*					
	• By an organization that specialized in application security.	*<Report Findings Here>*					
	• That at a minimum, all vulnerabilities in requirement 6.5 are included in the assessment.	*<Report Findings Here>*					
	• That all vulnerabilities are corrected.	*<Report Findings Here>*					
	• That the application is re-evaluated after the corrections.	*<Report Findings Here>*					
	If an automated technical solution that detects and prevents web-based attacks (for example, a web-application firewall) is indicated above:						
	Describe the automated technical solution in use that detects and prevents web-based attacks.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
	Identify the responsible personnel interviewed who confirm that the above automated technical solution is in place 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.	*<Report Findings Here>*					
	Describe how the system configuration settings verified that the above automated technical solution is in place as follows:						
	• Is situated in front of public-facing web applications to detect and prevent web-based attacks.	*<Report Findings Here>*					
	• Is actively running and up-to-date as applicable.	*<Report Findings Here>*					
	• Is generating audit logs.	*<Report Findings Here>*					
	• Is configured to either block web-based attacks, or generate an alert that is immediately investigated.	*<Report Findings Here>*					
6.7 Ensure that security policies and operational procedures for developing and maintaining secure systems and applications are documented, in use, and known to all affected parties.			☐	☐	☐	☐	☐
6.7 Examine documentation and interview personnel to verify that security policies and operational procedures for developing and maintaining secure systems and applications are: • Documented, • In use, and • Known to all affected parties.	**Identify the document** examined to verify that security policies and operational procedures for developing and maintaining secure systems and applications are documented.	*<Report Findings Here>*					
	Identify the responsible personnel interviewed who confirm that the above documented security policies and operational procedures for developing and maintaining secure systems and applications are: • In use • Known to all affected parties	<Report Findings Here>					

Implement Strong Access Control Measures

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

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	**In Place w/CCW**	**N/A**	**Not Tested**	**Not in Place**
7.1 Limit access to system components and cardholder data to only those individuals whose job requires such access.			☐	☐	☐	☐	☐
7.1.a Examine written policy for access control, and verify that the policy incorporates 7.1.1 through 7.1.4 as follows: • Defining access needs and privilege assignments for each role. • Restriction of access to privileged user IDs to least privileges necessary to perform job responsibilities. • Assignment of access based on individual personnel's job classification and function. • Documented approval (electronically or in writing) by authorized parties for all access, including listing of specific privileges approved.	**Identify the written policy for access control** that was examined to verify the policy incorporates 7.1.1 through 7.1.4 as follows: • Defining access needs and privilege assignments for each role. • Restriction of access to privileged user IDs to least privileges necessary to perform job responsibilities. • Assignment of access based on individual personnel's job classification and function • Documented approval (electronically or in writing) by authorized parties for all access, including listing of specific privileges approved.	*<Report Findings Here>*					
7.1.1 Define access needs for each role, including: • System components and data resources that each role needs to access for their job function. • Level of privilege required (for example, user, administrator, etc.) for accessing resources.			☐	☐	☐	☐	☐
7.1.1 Select a sample of roles and verify access needs for each role are defined and include: • System components and data resources that each role needs to access for their job function. • Identification of privilege necessary for each role to perform their job function.	**Identify the selected sample** of roles for this testing procedure.	*<Report Findings Here>*					
	For each role in the selected sample, **describe how** the role was examined to verify access needs are defined and include:						
	• System components and data resources that each role needs to access for their job function.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/CCW	N/A	Not Tested	Not in Place
	• Identification of privilege necessary for each role to perform their job function.	*<Report Findings Here>*					
7.1.2 Restrict access to privileged user IDs to least privileges necessary to perform job responsibilities.			☐	☐	☐	☐	☐
7.1.2.a Interview personnel responsible for assigning access to verify that access to privileged user IDs is: • Assigned only to roles that specifically require such privileged access. • Restricted to least privileges necessary to perform job responsibilities.	**Identify the responsible personnel** interviewed who confirm that access to privileged user IDs is: • Assigned only to roles that specifically require such privileged access. • Restricted to least privileges necessary to perform job responsibilities.	*<Report Findings Here>*					
7.1.2.b Select a sample of user IDs with privileged access and interview responsible management personnel to verify that privileges assigned are: • Necessary for that individual's job function. • Restricted to least privileges necessary to perform job responsibilities.	**Identify the sample** of user IDs *with privileged access* selected for this testing procedure.	*<Report Findings Here>*					
	Identify the responsible management personnel interviewed to confirm that privileges assigned are: • Necessary for that individual's job function. • Restricted to least privileges necessary to perform job responsibilities.	*<Report Findings Here>*					
	For the interview, **summarize the relevant details discussed** to confirm that privileges assigned to each sample user ID are:						
	• Necessary for that individual's job function.	*<Report Findings Here>*					
	• Restricted to least privileges necessary to perform job responsibilities.	*<Report Findings Here>*					
7.1.3 Assign access based on individual personnel's job classification and function.			☐	☐	☐	☐	☐
7.1.3 Select a sample of user IDs and interview responsible management personnel to verify that privileges assigned are based on that individual's job classification and function.	**Identify the sample** of user IDs selected for this testing procedure.	*<Report Findings Here>*					
	Identify the responsible management personnel interviewed who confirm that privileges assigned are based on that individual's job classification and function.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/CCW	N/A	Not Tested	Not in Place
	For the interview, **summarize the relevant details discussed** to confirm that privileges assigned to each sample user ID are based on that individual's job classification and function.	*<Report Findings Here>*					
7.1.4 Require documented approval by authorized parties specifying required privileges.			☐	☐	☐	☐	☐
7.1.4 Select a sample of user IDs and compare with documented approvals to verify that: • Documented approval exists for the assigned privileges. • The approval was by authorized parties. • That specified privileges match the roles assigned to the individual.	**Identify the sample** of user IDs selected for this testing procedure.	*<Report Findings Here>*					
	For each user ID in the selected sample, **describe how**:						
	• Documented approval exists for the assigned privileges.	*<Report Findings Here>*					
	• The approval was by authorized parties.	*<Report Findings Here>*					
	• That specified privileges match the roles assigned to the individual.	*<Report Findings Here>*					
7.2 Establish an access control system(s) for systems components that restricts access based on a user's need to know, and is set to "deny all" unless specifically allowed. This access control system(s) must include the following:							
7.2 Examine system settings and vendor documentation to verify that an access control system(s) is implemented as follows:							
7.2.1 Coverage of all system components.			☐	☐	☐	☐	☐
7.2.1 Confirm that access control systems are in place on all system components.	**Identify vendor documentation** examined.	*<Report Findings Here>*					
	Describe how system settings and the vendor documentation verified that access control systems are in place on all system components.	*<Report Findings Here>*					
7.2.2 Assignment of privileges to individuals based on job classification and function.			☐	☐	☐	☐	☐
7.2.2 Confirm that access control systems are configured to enforce privileges assigned to individuals based on job classification and function.	**Describe how** system settings and the vendor documentation at 7.2.1 verified that access control systems are configured to enforce privileges assigned to individuals based on job classification and function.	*<Report Findings Here>*					
7.2.3 Default "deny-all" setting.			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/CCW	N/A	Not Tested	Not in Place
7.2.3 Confirm that the access control systems have a default "deny-all" setting.	**Describe how** system settings and the vendor documentation at 7.2.1 verified that access control systems have a default "deny-all" setting.	*<Report Findings Here>*					
7.3 Ensure that security policies and operational procedures for restricting access to cardholder data are documented, in use, and known to all affected parties.			☐	☐	☐	☐	☐
7.3 Examine documentation and interview personnel to verify that security policies and operational procedures for restricting access to cardholder data are: • Documented, • In use, and • Known to all affected parties.	**Identify the document reviewed to** verify that security policies and operational procedures for restricting access to cardholder data are documented.	<Report Findings Here>					
	Identify the responsible personnel interviewed who confirm that the above documented security policies and operational procedures for restricting access to cardholder data are: • In use • Known to all affected parties	<Report Findings Here>					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
8.1 Define and implement policies and procedures to ensure proper user identification management for non-consumer users and administrators on all system components as follows:			☐	☐	☐	☐	☐

8.1.a Review procedures and confirm they define processes for each of the items below at 8.1.1 through 8.1.8.	**Identify the written procedures for user identification management** examined to verify processes are defined for each of the items below at 8.1.1 through 8.1.8:
	
	• Assign all users a unique ID before allowing them to access system components or cardholder data.
	
	• Control addition, deletion, and modification of user IDs, credentials, and other identifier objects.
	
	• Immediately revoke access for any terminated users.
	
	• Remove/disable inactive user accounts at least every 90 days.
	
	• Manage IDs used by vendors to access, support, or maintain system components via remote access as follows:
	  − Enabled only during the time period needed and disabled when not in use.
	  − Monitored when in use.
	
	• Limit repeated access attempts by locking out the user ID after not more than six attempts.
	
	• Set the lockout duration to a minimum of 30 minutes or until an administrator enables the user ID.
	
	• If a session has been idle for more than 15 minutes, require the user to re-authenticate to re-activate the terminal or session.
		<Report Findings Here>					

8.1.b Verify that procedures are implemented for user identification management, by performing the following:							
8.1.1 Assign all users a unique ID before allowing them to access system components or cardholder data.			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
8.1.1 Interview administrative personnel to confirm that all users are assigned a unique ID for access to system components or cardholder data.	**Identify the responsible administrative personnel** interviewed who confirm that all users are assigned a unique ID for access to system components or cardholder data.	*<Report Findings Here>*					
8.1.2 Control addition, deletion, and modification of user IDs, credentials, and other identifier objects.			☐	☐	☐	☐	☐
8.1.2 For a sample of privileged user IDs and general user IDs, examine associated authorizations and observe system settings to verify each user ID and privileged user ID has been implemented with only the privileges specified on the documented approval.	**Identify the sample** of privileged user IDs selected for this testing procedure.	*<Report Findings Here>*					
	Identify the sample of general user IDs selected for this testing procedure.	*<Report Findings Here>*					
	Describe how observed system settings and the associated authorizations verified that each ID has been implemented with only the privileges specified on the documented approval:						
	• For the sample of privileged user IDs.	*<Report Findings Here>*					
	• For the sample of general user IDs.	*<Report Findings Here>*					
8.1.3 Immediately revoke access for any terminated users.			☐	☐	☐	☐	☐
8.1.3.a Select a sample of users terminated in the past six months, and review current user access lists—for both local and remote access—to verify that their IDs have been deactivated or removed from the access lists.	**Identify the sample** of users terminated in the past six months that were selected for this testing procedure.	*<Report Findings Here>*					
	Describe how the current user access lists for *local access* verified that the sampled user IDs have been deactivated or removed from the access lists.	*<Report Findings Here>*					
	Describe how the current user access lists for *remote access* verified that the sampled user IDs have been deactivated or removed from the access lists.	*<Report Findings Here>*					
8.1.3.b Verify all physical authentication methods—such as, smart cards, tokens, etc.—have been returned or deactivated.	*For the sample of users terminated in the past six months at 8.1.3.a*, **describe how** it was determined which, if any, physical authentication methods, the terminated users had access to prior to termination.	*<Report Findings Here>*					
	Describe how the physical authentication method(s) for the terminated employees were verified to have been returned or deactivated.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
8.1.4 Remove/disable inactive user accounts within 90 days.			☐	☐	☐	☐	☐
8.1.4 Observe user accounts to verify that any inactive accounts over 90 days old are either removed or disabled.	**Describe how** user accounts were observed to verify that any inactive accounts over 90 days old are either removed or disabled.	*<Report Findings Here>*					
8.1.5 Manage IDs used by third parties to access, support, or maintain system components via remote access as follows: • Enabled only during the time period needed and disabled when not in use. • Monitored when in use.			☐	☐	☐	☐	☐
8.1.5.a Interview personnel and observe processes for managing accounts used by third parties to access, support, or maintain system components to verify that accounts used for remote access are: • Disabled when not in use. • Enabled only when needed by the third party, and disabled when not in use.	**Identify the responsible personnel** interviewed who confirm that accounts used by third parties for remote access are: • Disabled when not in use. • Enabled only when needed by the third party, and disabled when not in use.	*<Report Findings Here>*					
	Describe how processes for managing third party accounts were observed to verify that accounts used for remote access are:						
	• Disabled when not in use.	*<Report Findings Here>*					
	• Enabled only when needed by the third party, and disabled when not in use.	*<Report Findings Here>*					
8.1.5.b Interview personnel and observe processes to verify that third party remote access accounts are monitored while being used.	**Identify the responsible personnel** interviewed who confirm that accounts used by third parties for remote access are monitored while being used.	*<Report Findings Here>*					
	Describe how processes for managing third party remote access were observed to verify that accounts are monitored while being used.	*<Report Findings Here>*					
8.1.6 Limit repeated access attempts by locking out the user ID after not more than six attempts.			☐	☐	☐	☐	☐
8.1.6.a For a sample of system components, inspect system configuration settings to verify that authentication parameters are set to require that user accounts be locked out after not more than six invalid logon attempts.	**Identify the sample** of system components selected for this testing procedure.	*<Report Findings Here>*					
	For each item in the sample, **describe how** system configuration settings verified that authentication parameters are set to require that user accounts be locked after not more than six invalid logon attempts.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
8.1.6.b *Additional procedure for service provider assessments only:* Review internal processes and customer/user documentation, and observe implemented processes to verify that non-consumer customer user accounts are temporarily locked-out after not more than six invalid access attempts.	*Additional procedure for service provider assessments only,* **identify the documented internal processes and customer/user documentation** reviewed to verify that non-consumer customer user accounts are temporarily locked-out after not more than six invalid access attempts.	*<Report Findings Here>*					
	Describe how implemented processes were observed to verify that non-consumer customer user accounts are temporarily locked-out after not more than six invalid access attempts.	*<Report Findings Here>*					
8.1.7 Set the lockout duration to a minimum of 30 minutes or until an administrator enables the user ID.			☐	☐	☐	☐	☐
8.1.7 For a sample of system components, inspect system configuration settings to verify that password parameters are set to require that once a user account is locked out, it remains locked for a minimum of 30 minutes or until a system administrator resets the account.	**Identify the sample** of system components selected for this testing procedure.	*<Report Findings Here>*					
	For each item in the sample, **describe how** system configuration settings verified that password parameters are set to require that once a user account is locked out, it remains locked for a minimum of 30 minutes or until a system administrator resets the account.	*<Report Findings Here>*					
8.1.8 If a session has been idle for more than 15 minutes, require the user to re-authenticate to re-activate the terminal or session.			☐	☐	☐	☐	☐
8.1.8 For a sample of system components, inspect system configuration settings to verify that system/session idle time out features have been set to 15 minutes or less.	**Identify the sample** of system components selected for this testing procedure.	*<Report Findings Here>*					
	For each item in the sample, **describe how** system configuration settings verified that system/session idle time out features have been set to 15 minutes or less.	*<Report Findings Here>*					
8.2 In addition to assigning a unique ID, ensure proper user-authentication management for non-consumer users and administrators on all system components by employing at least one of the following methods 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.			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
8.2 To verify that users are authenticated using unique ID and additional authentication (for example, a password/phrase) for access to the cardholder data environment, perform the following: • Examine documentation describing the authentication method(s) used. • For each type of authentication method used and for each type of system component, observe an authentication to verify authentication is functioning consistent with documented authentication method(s).	**Identify the document** describing the authentication method(s) used that was reviewed to verify that the methods require users to be authenticated using a unique ID and additional authentication for access to the cardholder data environment.	*<Report Findings Here>*					
	Describe the authentication methods used (for example, a password or passphrase, a token device or smart card, a biometric, etc.) for each type of system component.	*<Report Findings Here>*					
	For each type of authentication method used and for each type of system component, **describe how** the authentication method was observed to be functioning consistently with the documented authentication method(s).	*<Report Findings Here>*					
8.2.1 Using strong cryptography, render all authentication credentials (such as passwords/phrases) unreadable during transmission and storage on all system components.			☐	☐	☐	☐	☐
8.2.1.a Examine vendor documentation and system configuration settings to verify that passwords are protected with strong cryptography during transmission and storage.	**Identify the vendor documentation** examined to verify that passwords are protected with strong cryptography during transmission and storage.	*<Report Findings Here>*					
	Identify the sample of system components selected for this testing procedure.	*<Report Findings Here>*					
	For each item in the sample, **describe how** system configuration settings verified that passwords are protected with strong cryptography during *transmission*.	*<Report Findings Here>*					
	For each item in the sample, **describe how** system configuration settings verified that passwords are protected with strong cryptography during *storage*.	*<Report Findings Here>*					
8.2.1.b For a sample of system components, examine password files to verify that passwords are unreadable during storage.	*For each item in the sample at 8.2.1.a,* **describe how** password files verified that passwords are unreadable during storage.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
8.2.1.c For a sample of system components, examine data transmissions to verify that passwords are unreadable during transmission.	*For each item in the sample at 8.2.1.a,* **describe how** data transmissions verified that passwords are unreadable during transmission.	*<Report Findings Here>*					
8.2.1.d *Additional procedure for service provider assessments only:* Observe password files to verify that non-consumer customer passwords are unreadable during storage.	*Additional procedure for service provider assessments only: for each item in the sample at 8.2.1.a,* **describe how** password files verified that non-consumer customer passwords are unreadable during storage.	*<Report Findings Here>*					
8.2.1.e *Additional procedure for service provider assessments only:* Observe data transmissions to verify that non-consumer customer passwords are unreadable during transmission.	*Additional procedure for service provider assessments only: for each item in the sample at 8.2.1.a,* **describe how** password files verified that non-consumer customer passwords are unreadable during transmission.	*<Report Findings Here>*					
8.2.2 Verify user identity before modifying any authentication credential—for example, performing password resets, provisioning new tokens, or generating new keys.			☐	☐	☐	☐	☐
8.2.2 Examine authentication procedures for modifying authentication credentials and observe security personnel to verify that, if a user requests a reset of an authentication credential by phone, e-mail, web, or other non-face-to-face method, the user's identity is verified before the authentication credential is modified.	**Identify the document** examined to verify that authentication procedures for modifying authentication credentials define that if a user requests a reset of an authentication credential by a non-face-to-face method, the user's identity is verified before the authentication credential is modified.	*<Report Findings Here>*					
	Describe the non-face-to-face methods used for requesting password resets.	*<Report Findings Here>*					
	For each non-face-to-face method, **describe how** security personnel were observed to verify the user's identity before the authentication credential was modified.	*<Report Findings Here>*					
8.2.3 Passwords/passphrases must meet the following: • Require a minimum 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.			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
8.2.3.a For a sample of system components, inspect system configuration settings to verify that user password/passphrase parameters are set to require at least the following strength/complexity: • Require a minimum length of at least seven characters. • Contain both numeric and alphabetic characters.	**Identify the sample** of system components selected for this testing procedure.	*<Report Findings Here>*					
	For each item in the sample, **describe how** system configuration settings verified that user password/passphrase parameters are set to require at least the following strength/complexity:						
	• Require a minimum length of at least seven characters.	*<Report Findings Here>*					
	• Contain both numeric and alphabetic characters.	*<Report Findings Here>*					
8.2.3.b *Additional procedure for service provider assessments only*: Review internal processes and customer/user documentation to verify that non-consumer customer passwords/passphrases are required to meet at least the following strength/complexity: • Require a minimum length of at least seven characters. • Contain both numeric and alphabetic characters.	*Additional procedure for service provider assessments only:* **Identify the documented internal processes and customer/user documentation** reviewed to verify that non-consumer customer passwords/passphrases are required to meet at least the following strength/complexity: • A minimum length of at least seven characters. • Non-consumer customer passwords/passphrases are required to contain both numeric and alphabetic characters.	*<Report Findings Here>*					
	Describe how internal processes were observed to verify that non-consumer customer passwords/passphrases are required to meet at least the following strength/complexity:						
	• A minimum length of at least seven characters.	*<Report Findings Here>*					
	• Non-consumer customer passwords/passphrases are required to contain both numeric and alphabetic characters.	*<Report Findings Here>*					
8.2.4 Change user passwords/passphrases at least once every 90 days.			☐	☐	☐	☐	☐
8.2.4.a For a sample of system components, inspect system configuration	**Identify the sample** of system components selected for this testing procedure.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
settings to verify that user password/passphrase parameters are set to require users to change passwords/passphrases at least once every 90 days.	*For each item in the sample,* **describe how** system configuration settings verified that user password/passphrase parameters are set to require users to change passwords/passphrases at least once every 90 days.	*<Report Findings Here>*					
8.2.4.b *Additional procedure for service provider assessments only*: Review internal processes and customer/user documentation to verify that: • Non-consumer customer user passwords/passphrases are required to change periodically; and • Non-consumer customer users are given guidance as to when, and under what circumstances, passwords/passphrases must change.	*Additional procedure for service provider assessments only,* **identify the documented internal processes and customer/user documentation** reviewed to verify that: • Non-consumer customer user passwords/passphrases are required to change periodically; and • Non-consumer customer users are given guidance as to when, and under what circumstances, passwords/passphrases must change.	*<Report Findings Here>*					
	Describe how internal processes were observed to verify that:						
	• Non-consumer customer user passwords/passphrases are required to change periodically; and	*<Report Findings Here>*					
	• Non-consumer customer users are given guidance as to when, and under what circumstances, passwords/passphrases must change.	*<Report Findings Here>*					
8.2.5 Do not allow an individual to submit a new password/passphrase that is the same as any of the last four passwords/passphrases he or she has used.			☐	☐	☐	☐	☐
8.2.5.a For a sample of system components, obtain and inspect system configuration settings to verify that password/passphrase parameters are set to require that new passwords/passphrases cannot be the same as the four previously used passwords/passphrases.	**Identify the sample** of system components selected for this testing procedure.	*<Report Findings Here>*					
	For each item in the sample, **describe how** system configuration settings verified that password/passphrase parameters are set to require that new passwords/passphrases cannot be the same as the four previously used passwords/passphrases.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
8.2.5.b *Additional Procedure for service provider assessments only:* Review internal processes and customer/user documentation to verify that new non-consumer customer user passwords/passphrases cannot be the same as the previous four passwords/passphrases.	*Additional procedure for service provider assessments only,* **identify the documented internal processes and customer/user documentation** reviewed to verify that new non-consumer customer user passwords/passphrases cannot be the same as the previous four passwords/passphrases.	*<Report Findings Here>*					
	Describe how internal processes were observed to verify that new non-consumer customer user passwords/passphrases cannot be the same as the previous four passwords/passphrases.	*<Report Findings Here>*					
8.2.6 Set passwords/passphrases for first-time use and upon reset to a unique value for each user, and change immediately after the first use.			☐	☐	☐	☐	☐
8.2.6 Examine password procedures and observe security personnel to verify that first-time passwords/passphrases for new users, and reset passwords/passphrases for existing users, are set to a unique value for each user and changed after first use.	**Identify the documented password procedures** examined to verify the procedures define that: • First-time passwords/passphrases must be set to a unique value for each user. • First-time passwords/passphrases must be changed after the first use. • Reset passwords/passphrases must be set to a unique value for each user. • Reset passwords/passphrases must be changed after the first use.	*<Report Findings Here>*					
	Describe how security personnel were observed to:						
	• Set first-time passwords/passphrases to a unique value for each new user.	*<Report Findings Here>*					
	• Set first-time passwords/passphrases to be changed after first use.	*<Report Findings Here>*					
	• Set reset passwords/passphrases to a unique value for each existing user.	*<Report Findings Here>*					
	• Set reset passwords/passphrases to be changed after first use.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
8.3 Secure all individual non-console administrative access and all remote access to the CDE using multi-factor authentication							
Note: Multi-factor authentication requires that a minimum of two of the three authentication methods (see 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 Incorporate multi-factor authentication for all non-console access into the CDE for personnel with administrative access.			☐	☐	☐	☐	☐
8.3.1.a Examine network and/or system configurations, as applicable, to verify multi-factor authentication is required for all non-console administrative access into the CDE.	**Identify the sample of network and/or system components** examined for this testing procedure.	*<Report Findings Here>*					
	Describe how the configurations verify that multi-factor authentication is required for all non-console access into the CDE.						
	<Report Findings Here>						
8.3.1.b Observe a sample of administrator personnel login to the CDE and verify that at least two of the three authentication methods are used.	**Identify the sample of administrator personnel** observed logging in to the CDE.	*<Report Findings Here>*					
	Describe the multi-factor authentication methods observed to be in place for administrator personnel non-console log ins to the CDE.						
	<Report Findings Here>						
8.3.2 Incorporate multi-factor authentication 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.			☐	☐	☐	☐	☐
8.3.2.a Examine system configurations for remote access servers and systems to verify multi-factor authentication is required for: • All remote access by personnel, both user and administrator, and • All third-party/vendor remote access (including access to applications and system components for support or maintenance purposes).	**Describe how** system configurations for remote access servers and systems verified that multi-factor authentication is required for:						
	• All remote access by personnel, both user and administrator, and	*<Report Findings Here>*					
	• All third-party/vendor remote access (including access to applications and system components for support or maintenance purposes).	*<Report Findings Here>*					
8.3.2.b Observe a sample of personnel (for example, users and administrators) connecting remotely to the network and verify that at least two of the three authentication methods are used.	**Identify the sample of personnel** observed connecting remotely to the network.	*<Report Findings Here>*					
	For each individual in the sample, **describe how** multi-factor authentication was observed to be required for remote access to the network.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
8.4 Document and communicate authentication policies and procedures to all users including: • Guidance on selecting strong authentication credentials. • Guidance for how users should protect their authentication credentials. • Instructions not to reuse previously used passwords. • Instructions to change passwords if there is any suspicion the password could be compromised.			☐	☐	☐	☐	☐
8.4.a Examine procedures and interview personnel to verify that authentication policies and procedures are distributed to all users.	**Identify the documented policies and procedures** examined to verify authentication procedures define that authentication procedures and policies are distributed to all users.	*<Report Findings Here>*					
	Identify the responsible personnel interviewed who confirm that authentication policies and procedures are distributed to all users.	*<Report Findings Here>*					
8.4.b Review authentication policies and procedures that are distributed to users and verify they include: • Guidance on selecting strong authentication credentials. • Guidance for how users should protect their authentication credentials. • Instructions for users not to reuse previously used passwords. • Instructions to change passwords if there is any suspicion the password could be compromised.	**Identify the documented authentication policies and procedures that are distributed to users** reviewed to verify they include: • Guidance on selecting strong authentication credentials. • Guidance for how users should protect their authentication credentials. • Instructions for users not to reuse previously used passwords. • That users should change passwords if there is any suspicion the password could be compromised.	*<Report Findings Here>*					
8.4.c Interview a sample of users to verify that they are familiar with authentication policies and procedures.	**Identify the sample** of users interviewed for this testing procedure.	*<Report Findings Here>*					
	For each user in the sample, **summarize the relevant details** discussed that verify that they are familiar with authentication policies and procedures.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
8.5 Do not use group, shared, or generic IDs, passwords, or other authentication methods as follows: • Generic user IDs are disabled or removed. • Shared user IDs do not exist for system administration and other critical functions. • Shared and generic user IDs are not used to administer any system components.			☐	☐	☐	☐	☐
8.5.a For a sample of system components, examine user ID lists to verify the following: • Generic user IDs are disabled or removed. • Shared user IDs for system administration activities and other critical functions do not exist. • Shared and generic user IDs are not used to administer any system components.	**Identify the sample** of system components selected for this testing procedure.	*<Report Findings Here>*					
	For each item in the sample, **describe how** the user ID lists verified that:						
	• Generic user IDs are disabled or removed.	*<Report Findings Here>*					
	• Shared user IDs for system administration activities and other critical functions do not exist.	*<Report Findings Here>*					
	• Shared and generic user IDs are not used to administer any system components.	*<Report Findings Here>*					
8.5.b Examine authentication policies and procedures to verify that use of group and shared IDs and/or passwords or other authentication methods are explicitly prohibited.	**Identify the documented policies and procedures** examined to verify authentication policies/procedures define that use of group and shared IDs and/or passwords or other authentication methods are explicitly prohibited.	*<Report Findings Here>*					
8.5.c Interview system administrators to verify that group and shared IDs and/or passwords or other authentication methods are not distributed, even if requested.	**Identify the system administrators** interviewed who confirm that group and shared IDs and/or passwords or other authentication methods are not distributed, even if requested.	*<Report Findings Here>*					
8.5.1 *Additional requirement for service providers only:* Service providers with remote access to customer premises (for example, for support of POS systems or servers) must use a unique authentication credential (such as a password/phrase) for each customer. *This requirement is not intended to apply to shared hosting providers accessing their own hosting environment, where multiple customer environments are hosted.*			☐	☐	☐	☐	☐
8.5.1 *Additional procedure for service provider assessments only:* Examine authentication policies and procedures	**Identify the documented procedures** examined to verify that different authentication credentials are used for access to each customer.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
and interview personnel to verify that different authentication credentials are used for access to each customer.	**Identify the responsible personnel** interviewed who confirm that different authentication credentials are used for access to each customer	*<Report Findings Here>*					
8.6 Where other authentication mechanisms are used (for example, physical or logical security tokens, smart cards, certificates, etc.) use of these mechanisms must be 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.			☐	☐	☐	☐	☐
8.6.a Examine authentication policies and procedures to verify that procedures for using authentication mechanisms such as physical security tokens, smart cards, and certificates are defined and include: • Authentication mechanisms are assigned to an individual account and not shared among multiple accounts. • Physical and/or logical controls are defined to ensure only the intended account can use that mechanism to gain access.	**Identify the documented authentication policies and procedures** examined to verify the procedures for using authentication mechanisms define that: • Authentication mechanisms are assigned to an individual account and not shared among multiple accounts. • Physical and/or logical controls are defined to ensure only the intended account can use that mechanism to gain access.	*<Report Findings Here>*					
8.6.b Interview security personnel to verify authentication mechanisms are assigned to an account and not shared among multiple accounts.	**Identify the security personnel** interviewed who confirm that authentication mechanisms are assigned to an account and not shared among multiple accounts.	*<Report Findings Here>*					
8.6.c Examine system configuration settings and/or physical controls, as applicable, to verify that controls are implemented to ensure only the intended account can use that mechanism to gain access.	**Identify the sample** of system components selected for this testing procedure.	*<Report Findings Here>*					
	For each item in the sample, **describe how** system configuration settings and/or physical controls, as applicable, verified that controls are implemented to ensure only the intended account can use that mechanism to gain access.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
8.7 All access to any database containing cardholder data (including access by applications, administrators, and all other users) is restricted as follows: • All user access to, user queries of, and user actions on databases are through programmatic methods. • Only database administrators have the ability to directly access or query databases. • Application IDs for database applications can only be used by the applications (and not by individual users or other non-application processes).			☐	☐	☐	☐	☐
8.7.a Review database and application configuration settings and verify that all users are authenticated prior to access.	**Identify** all databases containing cardholder data.	*<Report Findings Here>*					
	Describe how database and/or application configuration settings verified that all users are authenticated prior to access.	*<Report Findings Here>*					
8.7.b Examine database and application configuration settings to verify that all user access to, user queries of, and user actions on (for example, move, copy, delete), the database are through programmatic methods only (for example, through stored procedures).	*For each database from 8.7.a,* **describe how** the database and application configuration settings verified that all user access to, user queries of, and user actions on the database are through programmatic methods only.	*<Report Findings Here>*					
8.7.c Examine database access control settings and database application configuration settings to verify that user direct access to or queries of databases are restricted to database administrators.	*For each database from 8.7.a,* **describe how** database application configuration settings verified that user direct access to or queries of databases are restricted to database administrators.	*<Report Findings Here>*					
8.7.d Examine database access control settings, database application configuration settings, and the related application IDs to verify that application IDs can only be used by the applications (and not by individual users or other processes).	*For each database from 8.7.a:*						
	Identify applications with access to the database.	*<Report Findings Here>*					
	Describe how database access control settings, database application configuration settings and related application IDs verified that application IDs can only be used by the applications.	*<Report Findings Here>*					
8.8 Ensure that security policies and operational procedures for identification and authentication are documented, in use, and known to all affected parties.			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
8.8 Examine documentation and interview personnel to verify that security policies and operational procedures for identification and authentication are: • Documented, • In use, and • Known to all affected parties.	**Identify the document** reviewed to verify that security policies and operational procedures for identification and authentication are documented.	\<Report Findings Here\>					
	Identify the responsible personnel interviewed who confirm that the above documented security policies and operational procedures for identification and authentication are: • In use • Known to all affected parties	\<Report Findings Here\>					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/CCW	N/A	Not Tested	Not in Place
9.1 Use appropriate facility entry controls to limit and monitor physical access to systems in the cardholder data environment.			☐	☐	☐	☐	☐
9.1 Verify the existence of physical security controls for each computer room, data center, and other physical areas with systems in the cardholder data environment. • Verify that access is controlled with badge readers or other devices including authorized badges and lock and key. • Observe a system administrator's attempt to log into consoles for randomly selected systems in the cardholder data environment and verify that they are "locked" to prevent unauthorized use.	**Identify and briefly describe** all of the following with systems in the cardholder data environment:						
	• All computer rooms	*<Report Findings Here>*					
	• All data centers	*<Report Findings Here>*					
	• Any other physical areas	*<Report Findings Here>*					
	For each area identified (add rows as needed), complete the following:						
	Describe the physical security controls observed to be in place, including authorized badges and lock and key.	*<Report Findings Here>*					
	Identify the randomly selected systems in the cardholder environment for which a system administrator login attempt was observed.	*<Report Findings Here>*					
	Describe how consoles for the randomly selected systems were observed to be "locked" when not in use.	*<Report Findings Here>*					
9.1.1 Use either video cameras or access control mechanisms (or both) 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. *Note: "Sensitive areas" refers to any data center, server room, or any area that houses systems that store, process, or transmit cardholder data. This excludes public-facing areas where only point-of-sale terminals are present, such as the cashier areas in a retail store.*			☐	☐	☐	☐	☐
9.1.1.a Verify that either video cameras or access control mechanisms (or both) are in place to monitor the entry/exit points to sensitive areas.	**Describe** either the video cameras or access control mechanisms (or both) observed to monitor the entry/exit points to sensitive areas.	*<Report Findings Here>*					
9.1.1.b Verify that either video cameras or access control mechanisms (or both) are protected from tampering or disabling.	**Describe how** either the video cameras or access control mechanisms (or both) were observed to be protected from tampering and/or disabling.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/CCW	N/A	Not Tested	Not in Place
9.1.1.c Verify that data from video cameras and/or access control mechanisms is reviewed, and that data is stored for at least three months.	**Describe how** the data from video cameras and/or access control mechanisms were observed to be reviewed.	*<Report Findings Here>*					
	Describe how data was observed to be stored for at least three months.	*<Report Findings Here>*					
9.1.2 Implement physical and/or logical controls to restrict access to publicly accessible network jacks. *For example, network jacks located in public areas and areas accessible to visitors could be disabled and only enabled when network access is explicitly authorized. Alternatively, processes could be implemented to ensure that visitors are escorted at all times in areas with active network jacks.*			☐	☐	☐	☐	☐
9.1.2 Interview responsible personnel and observe locations of publicly accessible network jacks to verify that physical and/or logical controls are in place to restrict access to publicly accessible network jacks.	**Identify the responsible personnel** interviewed who confirm that physical and/or logical controls are in place to restrict access to publicly accessible network jacks.	*<Report Findings Here>*					
	Describe how physical and/or logical controls were observed to be in place to restrict access to publicly accessible network jacks.	*<Report Findings Here>*					
9.1.3 Restrict physical access to wireless access points, gateways, handheld devices, networking/communications hardware, and telecommunication lines.			☐	☐	☐	☐	☐
9.1.3 Verify that physical access to wireless access points, gateways, handheld devices, networking/communications hardware, and telecommunication lines is appropriately restricted.	**Describe how** physical access was observed to be restricted to the following:						
	• Wireless access points	*<Report Findings Here>*					
	• Wireless gateways	*<Report Findings Here>*					
	• Wireless handheld devices	*<Report Findings Here>*					
	• Network/communications hardware	*<Report Findings Here>*					
	• Telecommunication lines	*<Report Findings Here>*					
9.2 Develop procedures to easily distinguish between onsite personnel and visitors, to include: • Identifying onsite personnel and visitors (for example, assigning badges). • Changes to access requirements. • Revoking or terminating onsite personnel and expired visitor identification (such as ID badges).			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/CCW	N/A	Not Tested	Not in Place
9.2.a Review documented processes to verify that procedures are defined for identifying and distinguishing between onsite personnel and visitors. Verify procedures include the following: • Identifying onsite personnel and visitors (for example, assigning badges), • Changing access requirements, and • Revoking terminated onsite personnel and expired visitor identification (such as ID badges).	**Identify the documented processes** reviewed to verify that procedures are defined for identifying and distinguishing between onsite personnel and visitors, including the following: • Identifying onsite personnel and visitors (for example, assigning badges), • Changing access requirements, and • Revoking terminated onsite personnel and expired visitor identification (such as ID badges).	*<Report Findings Here>*					
9.2.b Examine identification methods (such as ID badges) and observe processes for identifying and distinguishing between onsite personnel and visitors to verify that: • Visitors are clearly identified, and • It is easy to distinguish between onsite personnel and visitors.	**Identify** the identification methods examined.	*<Report Findings Here>*					
	Describe how processes for identifying and distinguishing between onsite personnel and visitors were observed to verify that:						
	• Visitors are clearly identified, and	*<Report Findings Here>*					
	• It is easy to distinguish between onsite personnel and visitors.	*<Report Findings Here>*					
9.2.c Verify that access to the identification process (such as a badge system) is limited to authorized personnel.	**Describe how** access to the identification process was observed to be limited to authorized personnel.	*<Report Findings Here>*					
9.3 Control physical access for onsite personnel to sensitive areas as follows: • Access must be authorized and based on individual job function. • Access is revoked immediately upon termination, and all physical access mechanisms, such as keys, access cards, etc., are returned or disabled.			☐	☐	☐	☐	☐
9.3.a For a sample of onsite personnel with physical access to sensitive areas,	**Identify the sample** of responsible personnel interviewed for this testing procedure.	*<Report Findings Here>*					
	For the interview, **summarize the relevant details** discussed to verify that:						
	• Access to the sensitive area is authorized.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/CCW	N/A	Not Tested	Not in Place
interview responsible personnel and observe access control lists to verify that: • Access to the sensitive area is authorized. • Access is required for the individual's job function.	• Access is required for the individual's job function.	*<Report Findings Here>*					
9.3.b Observe personnel accessing sensitive areas to verify that all personnel are authorized before being granted access.	**Describe how** personnel accessing sensitive areas were observed to verify that all personnel are authorized before being granted access.	*<Report Findings Here>*					
9.3.c Select a sample of recently terminated employees and review access control lists to verify the personnel do not have physical access to sensitive areas.	**Identify the sample** of users recently terminated.	*<Report Findings Here>*					
	For all items in the sample, **provide the name of the assessor** who attests that the access control lists were reviewed to verify the personnel do not have physical access to sensitive areas.	*<Report Findings Here>*					
9.4 Implement procedures to identify and authorize visitors. Procedures should include the following:							
9.4 Verify that visitor authorization and access controls are in place as follows:							
9.4.1 Visitors are authorized before entering, and escorted at all times within, areas where cardholder data is processed or maintained.			☐	☐	☐	☐	☐
9.4.1.a Observe procedures and interview personnel to verify that visitors must be authorized before they are granted access to, and escorted at all times within, areas where cardholder data is processed or maintained.	**Identify the documented procedures** examined to verify that visitors must be authorized before they are granted access to, and escorted at all times within, areas where cardholder data is processed or maintained.	*<Report Findings Here>*					
	Identify the responsible personnel interviewed who confirm that visitors must be authorized before they are granted access to, and escorted at all times within, areas where cardholder data is processed or maintained.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/CCW	N/A	Not Tested	Not in Place
9.4.1.b Observe the use of visitor badges or other identification to verify that a physical token badge does not permit unescorted access to physical areas where cardholder data is processed or maintained.	**Describe how** the use of visitor badges or other identification was observed to verify that a physical token badge does not permit unescorted access to physical areas where cardholder data is processed or maintained.	*<Report Findings Here>*					
9.4.2 Visitors are identified and given a badge or other identification that expires and that visibly distinguishes the visitors from onsite personnel.			☐	☐	☐	☐	☐
9.4.2.a Observe people within the facility to verify the use of visitor badges or other identification, and that visitors are easily distinguishable from onsite personnel.	**Describe how** people within the facility were observed to use visitor badges or other identification.	*<Report Findings Here>*					
	Describe how visitors within the facility were observed to be easily distinguishable from onsite personnel.	*<Report Findings Here>*					
9.4.2.b Verify that visitor badges or other identification expire.	**Describe how** visitor badges or other identification were verified to expire.	*<Report Findings Here>*					
9.4.3 Visitors are asked to surrender the badge or identification before leaving the facility or at the date of expiration.			☐	☐	☐	☐	☐
9.4.3 Observe visitors leaving the facility to verify visitors are asked to surrender their badge or other identification upon departure or expiration.	**Describe how** visitors leaving the facility were observed to verify they are asked to surrender their badge or other identification upon departure or expiration.	*<Report Findings Here>*					
9.4.4 A visitor log is used to maintain a physical audit trail of visitor activity to the facility as well as for computer rooms and data centers where cardholder data is stored or transmitted. Document the visitor's name, the firm represented, and the onsite personnel authorizing physical access on the log. Retain this log for a minimum of three months, unless otherwise restricted by law.			☐	☐	☐	☐	☐
9.4.4.a Verify that a visitor log is in use to record physical access to the facility as well as computer rooms and data centers where cardholder data is stored or transmitted.	**Describe how** it was observed that a visitor log is in use to record physical access to:						
	• The facility	*<Report Findings Here>*					
	• Computer rooms and data centers where cardholder data is stored or transmitted.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/CCW	N/A	Not Tested	Not in Place
9.4.4.b Verify that the log contains: • The visitor's name, • The firm represented, and • The onsite personnel authorizing physical access.	**Provide the name of the assessor** who attests that the visitor log contains: • The visitor's name, • The firm represented, and • The onsite personnel authorizing physical access.	*<Report Findings Here>*					
9.4.4.c Verify that the log is retained for at least three months.	**Describe how** visitor logs were observed to be retained for at least three months.	*<Report Findings Here>*					
9.5 Physically secure all media.			☐	☐	☐	☐	☐
9.5 Verify that procedures for protecting cardholder data include controls for physically securing all media (including but not limited to computers, removable electronic media, paper receipts, paper reports, and faxes).	**Identify the documented procedures for protecting cardholder data** reviewed to verify controls for physically securing all media are defined.	*<Report Findings Here>*					
9.5.1 Store media backups in a secure location, preferably an off-site facility, such as an alternate or back-up site, or a commercial storage facility. Review the location's security at least annually.			☐	☐	☐	☐	☐
9.5.1 Verify that the storage location security is reviewed at least annually to confirm that backup media storage is secure.	**Describe how** processes were observed to verify that the storage location is reviewed at least annually to confirm that backup media storage is secure.	*<Report Findings Here>*					
9.6 Maintain strict control over the internal or external distribution of any kind of media, including the following:			☐	☐	☐	☐	☐
9.6 Verify that a policy exists to control distribution of media, and that the policy covers all distributed media including that distributed to individuals.	**Identify the documented policy to control distribution of media** that was reviewed to verify the policy covers all distributed media, including that distributed to individuals.	*<Report Findings Here>*					
9.6.1 Classify media so the sensitivity of the data can be determined.			☐	☐	☐	☐	☐
9.6.1 Verify that all media is classified so the sensitivity of the data can be determined.	**Describe how** media was observed to be classified so the sensitivity of the data can be determined.	*<Report Findings Here>*					
9.6.2 Send the media by secured courier or other delivery method that can be accurately tracked.			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/CCW	N/A	Not Tested	Not in Place
9.6.2.a Interview personnel and examine records to verify that all media sent outside the facility is logged and sent via secured courier or other delivery method that can be tracked.	**Identify the responsible personnel** interviewed who confirm that all media sent outside the facility is logged and sent via secured courier or other delivery method that can be tracked.	*<Report Findings Here>*					
	Identify the records examined for this testing procedure.	*<Report Findings Here>*					
	Describe how the offsite tracking records verified that all media is logged and sent via secured courier or other delivery method that can be tracked.	*<Report Findings Here>*					
9.6.2.b Select a recent sample of several days of offsite tracking logs for all media, and verify tracking details are documented.	**Identify the sample** of recent offsite tracking logs for all media selected.	*<Report Findings Here>*					
	For each item in the sample, **describe how** tracking details were observed to be documented.	*<Report Findings Here>*					
9.6.3 Ensure management approves any and all media that is moved from a secured area (including when media is distributed to individuals).			☐	☐	☐	☐	☐
9.6.3 Select a recent sample of several days of offsite tracking logs for all media. From examination of the logs and interviews with responsible personnel, verify proper management authorization is obtained whenever media is moved from a secured area (including when media is distributed to individuals).	**Identify the responsible personnel** interviewed who confirm that proper management authorization is obtained whenever media is moved from a secured area (including when media is distributed to individuals).	*<Report Findings Here>*					
	For each item in the sample in 9.6.2.b, **describe how** proper management authorization was observed to be obtained whenever media is moved from a secured area (including when media is distributed to individuals).	*<Report Findings Here>*					
9.7 Maintain strict control over the storage and accessibility of media.			☐	☐	☐	☐	☐
9.7 Obtain and examine the policy for controlling storage and maintenance of all media and verify that the policy requires periodic media inventories.	**Identify the documented policy for controlling storage and maintenance of all media** that was reviewed to verify that the policy defines required periodic media inventories.	*<Report Findings Here>*					
9.7.1 Properly maintain inventory logs of all media and conduct media inventories at least annually.			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/CCW	N/A	Not Tested	Not in Place
9.7.1 Review media inventory logs to verify that logs are maintained and media inventories are performed at least annually.	**Identify the media inventory logs** reviewed.	*<Report Findings Here>*					
	Describe how the media inventory logs verified that:						
	• Media inventory logs of all media were observed to be maintained.	*<Report Findings Here>*					
	• Media inventories are performed at least annually.	*<Report Findings Here>*					
9.8 Destroy media when it is no longer needed for business or legal reasons as follows:			☐	☐	☐	☐	☐
9.8 Examine the periodic media destruction policy and verify that it covers all media and defines requirements for the following: • Hard-copy materials must be crosscut shredded, incinerated, or pulped such that there is reasonable assurance the hard-copy materials cannot be reconstructed. • Storage containers used for materials that are to be destroyed must be secured. • Cardholder data on electronic media must be rendered unrecoverable (e.g. via a secure wipe program in accordance with industry-accepted standards for secure deletion, or by physically destroying the media).	**Identify the policy document for periodic media destruction** that was examined to verify it covers all media and defines requirements for the following: • Hard-copy materials must be crosscut shredded, incinerated, or pulped such that there is reasonable assurance the hard-copy materials cannot be reconstructed. • Storage containers used for materials that are to be destroyed must be secured. • Cardholder data on electronic media must be rendered unrecoverable (e.g. via a secure wipe program in accordance with industry-accepted standards for secure deletion, or by physically destroying the media).	*<Report Findings Here>*					
9.8.1 Shred, incinerate, or pulp hard-copy materials so that cardholder data cannot be reconstructed. Secure storage containers used for materials that are to be destroyed.			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/CCW	N/A	Not Tested	Not in Place
9.8.1.a Interview personnel and examine procedures to verify that hard-copy materials are crosscut shredded, incinerated, or pulped such that there is reasonable assurance the hard-copy materials cannot be reconstructed.	**Identify the responsible personnel** interviewed who confirm that hard-copy materials are crosscut shredded, incinerated, or pulped such that there is reasonable assurance the hard-copy materials cannot be reconstructed.	*<Report Findings Here>*					
	Provide the name of the assessor who attests that the procedures state that hard-copy materials are crosscut shredded, incinerated, or pulped such that there is reasonable assurance that hardcopy materials cannot be reconstructed.	*<Report Findings Here>*					
9.8.1.b Examine storage containers used for materials that contain information to be destroyed to verify that the containers are secured.	**Describe how** the storage containers used for materials to be destroyed were verified to be secured.	*<Report Findings Here>*					
9.8.2 Render cardholder data on electronic media unrecoverable so that cardholder data cannot be reconstructed.			☐	☐	☐	☐	☐
9.8.2 Verify that cardholder data on electronic media is rendered unrecoverable (e.g. via a secure wipe program in accordance with industry-accepted standards for secure deletion, or by physically destroying the media).	**Describe how** cardholder data on electronic media is rendered unrecoverable, via secure wiping of media and/or physical destruction of media.	*<Report Findings Here>*					
	If data is rendered unrecoverable via secure deletion or a secure wipe program, **identify the industry-accepted standards** used.	*<Report Findings Here>*					
9.9 Protect devices that capture payment card data via direct physical interaction with the card from tampering and substitution. *Note: These requirements apply to card-reading devices used in card-present transactions (that is, card swipe or dip) at the point of sale. This requirement is not intended to apply to manual key-entry components such as computer keyboards and POS keypads.*			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/CCW	N/A	Not Tested	Not in Place
9.9 Examine documented policies and procedures to verify they include: • Maintaining a list of devices. • Periodically inspecting devices to look for tampering or substitution. • Training personnel to be aware of suspicious behavior and to report tampering or substitution of POS devices.	**Identify the documented policies and procedures** examined to verify they include: • Maintaining a list of devices. • Periodically inspecting devices to look for tampering or substitution. • Training personnel to be aware of suspicious behavior and to report tampering or substitution of POS devices.	*<Report Findings Here>*					
9.9.1 Maintain an up-to-date list of devices. The list should include the following: • Make, model of device. • Location of device (for example, the address of the site or facility where the device is located). • Device serial number or other method of unique identification.			☐	☐	☐	☐	☐
9.9.1.a Examine the list of devices to verify it includes: • Make, model of device. • Location of device (for example, the address of the site or facility where the device is located). • Device serial number or other method of unique identification.	**Identify the documented up-to-date list of devices** examined to verify it includes: • Make, model of device. • Location of device (for example, the address of the site or facility where the device is located). • Device serial number or other method of unique identification.	*<Report Findings Here>*					
9.9.1.b Select a sample of devices from the list and observe devices and device locations to verify that the list is accurate and up-to-date.	**Identify the sample** of devices from the list selected for this testing procedure.	*<Report Findings Here>*					
	For all items in the sample, **describe how** the devices and device locations were observed to verify that the list is accurate and up-to-date.	*<Report Findings Here>*					
9.9.1.c Interview personnel to verify the list of devices is updated when devices are added, relocated, decommissioned, etc.	**Identify the responsible personnel** interviewed who confirm the list of devices is updated when devices are added, relocated, decommissioned, etc.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/CCW	N/A	Not Tested	Not in Place
9.9.2 Periodically inspect device surfaces to detect tampering (for example, addition of card skimmers to devices), or substitution (for example, by checking the serial number or other device characteristics to verify it has not been swapped with a fraudulent device). **Note:** Examples of signs that a device might have been tampered with or substituted include unexpected attachments or cables plugged into the device, missing or changed security labels, broken or differently colored casing, or changes to the serial number or other external markings.			☐	☐	☐	☐	☐
9.9.2.a Examine documented procedures to verify processes are defined to include the following: • Procedures for inspecting devices. • Frequency of inspections.	**Identify the documented procedures** examined to verify that processes are defined to include the following: • Procedures for inspecting devices. • Frequency of inspections.	*<Report Findings Here>*					
9.9.2.b Interview responsible personnel and observe inspection processes to verify: • Personnel are aware of procedures for inspecting devices. • All devices are periodically inspected for evidence of tampering and substitution.	**Identify** the **responsible personnel** interviewed who confirm that: • Personnel are aware of procedures for inspecting devices. • All devices are periodically inspected for evidence of tampering and substitution.	*<Report Findings Here>*					
	Describe how inspection processes were observed to verify that:						
	• All devices are periodically inspected for evidence of tampering.	*<Report Findings Here>*					
	• All devices are periodically inspected for evidence of substitution.	*<Report Findings Here>*					
9.9.3 Provide training for personnel to be aware of attempted tampering or replacement of devices. Training should include the following: • Verify the identity of any third-party persons claiming to be repair or maintenance personnel, prior to granting them access to modify or troubleshoot devices. • Do not install, replace, or return devices without verification. • Be aware of suspicious behavior around devices (for example, attempts by unknown persons to unplug or open devices). • Report suspicious behavior and indications of device tampering or substitution to appropriate personnel (for example, to a manager or security officer).			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/CCW	N/A	Not Tested	Not in Place
9.9.3.a Review training materials for personnel at point-of-sale locations to verify it includes training in the following: • Verifying the identity of any third-party persons claiming to be repair or maintenance personnel, prior to granting them access to modify or troubleshoot devices. • Not to install, replace, or return devices without verification. • Being aware of suspicious behavior around devices (for example, attempts by unknown persons to unplug or open devices). • Reporting suspicious behavior and indications of device tampering or substitution to appropriate personnel (for example, to a manager or security officer).	**Identify the training materials for personnel at point-of-sale locations** that were reviewed to verify the materials include training in the following: • Verifying the identity of any third-party persons claiming to be repair or maintenance personnel, prior to granting them access to modify or troubleshoot devices. • Not to install, replace, or return devices without verification. • Being aware of suspicious behavior around devices (for example, attempts by unknown persons to unplug or open devices). • Reporting all suspicious behavior to appropriate personnel (for example, a manager or security officer). • Reporting tampering or substitution of devices.	*<Report Findings Here>*					
9.9.3.b Interview a sample of personnel at point-of-sale locations to verify they have received training and are aware of the procedures for the following: • Verifying the identity of any third-party persons claiming to be repair or maintenance personnel, prior to granting them access to modify or troubleshoot devices. • Not to install, replace, or return devices without verification. • Being aware of suspicious behavior around devices (for example, attempts	**Identify the sample** of personnel at point-of-sale locations interviewed.	*<Report Findings Here>*					
	For the interview, **summarize the relevant details** discussed that verify interviewees have received training and are aware of the procedures for the following:						
	• Verifying the identity of any third-party persons claiming to be repair or maintenance personnel, prior to granting them access to modify or troubleshoot devices.	*<Report Findings Here>*					
	• Not to install, replace, or return devices without verification.	*<Report Findings Here>*					
	• Being aware of suspicious behavior around devices (for example, attempts by unknown persons to unplug or open devices).	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/CCW	N/A	Not Tested	Not in Place
by unknown persons to unplug or open devices). • Reporting suspicious behavior and indications of device tampering or substitution to appropriate personnel (for example, to a manager or security officer).	• Reporting suspicious behavior and indications of device tampering or substitution to appropriate personnel (for example, to a manager or security officer).	*<Report Findings Here>*					
9.10 Ensure that security policies and operational procedures for restricting physical access to cardholder data are documented, in use, and known to all affected parties.			☐	☐	☐	☐	☐
9.10 Examine documentation and interview personnel to verify that security policies and operational procedures for restricting physical access to cardholder data are: • Documented, • In use, and • Known to all affected parties.	**Identify the document reviewed to** verify that security policies and operational procedures for restricting physical access to cardholder data are documented.	<Report Findings Here>					
	Identify the **responsible personnel interviewed** who confirm that the above documented security policies and operational procedures for restricting physical access to cardholder data are: • In use, and • Known to all affected parties.	<Report Findings Here>					

Regularly Monitor and Test Networks

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

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	**In Place w/ CCW**	**N/A**	**Not Tested**	**Not in Place**
10.1 Implement audit trails to link all access to system components to each individual user.			☐	☐	☐	☐	☐
10.1 Verify, through observation and interviewing the system administrator, that: • Audit trails are enabled and active for system components. • Access to system components is linked to individual users.	**Identify the system administrator(s)** interviewed who confirm that: • Audit trails are enabled and active for system components. • Access to system components is linked to individual users.	*<Report Findings Here>*					
	Describe how audit trails were observed to verify the following:						
	• Audit trails are enabled and active for system components.	*<Report Findings Here>*					
	• Access to system components is linked to individual users.	*<Report Findings Here>*					
10.2 Implement automated audit trails for all system components to reconstruct the following events:			☐	☐	☐	☐	☐

10.2 Through interviews of responsible personnel, observation of audit logs, and examination of audit log settings, perform the following:	**Identify the responsible personnel** interviewed who confirm the following from 10.2.1-10.2.7 are logged:
	
	• All individual access to cardholder data.
	• All actions taken by any individual with root or administrative privileges.
	• Access to all audit trails.
	• Invalid logical access attempts.
	• Use of and changes to identification and authentication mechanisms, including:
	   o All elevation of privileges.
	   o All changes, additions, or deletions to any account with root or administrative privileges.
	• Initialization of audit logs.
	• Stopping or pausing of audit logs.
	• Creation and deletion of system level objects.
		<Report Findings Here>					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
	Identify the sample of audit logs selected for 10.2.1-10.2.7.	*<Report Findings Here>*					
10.2.1 All individual user accesses to cardholder data.			☐	☐	☐	☐	☐
10.2.1 Verify all individual access to cardholder data is logged.	*For all items in the sample at 10.2,* **describe how** audit logs and audit log settings verified that all individual access to cardholder data is logged.	*<Report Findings Here>*					
10.2.2 All actions taken by any individual with root or administrative privileges.			☐	☐	☐	☐	☐
10.2.2 Verify all actions taken by any individual with root or administrative privileges are logged.	*For all items in the sample at 10.2,* **describe how** audit logs and audit log settings verified that all actions taken by any individual with root or administrative privileges are logged.	*<Report Findings Here>*					
10.2.3 Access to all audit trails.			☐	☐	☐	☐	☐
10.2.3 Verify access to all audit trails is logged.	*For all items in the sample at 10.2,* **describe how** audit logs and audit log settings verified that access to all audit trails is logged.	*<Report Findings Here>*					
10.2.4 Invalid logical access attempts.			☐	☐	☐	☐	☐
10.2.4 Verify invalid logical access attempts are logged.	*For all items in the sample at 10.2,* **describe how** audit logs and audit log settings verified that invalid logical access attempts are logged.	*<Report Findings Here>*					
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.			☐	☐	☐	☐	☐
10.2.5.a Verify use of identification and authentication mechanisms is logged.	*For all items in the sample at 10.2,* **describe how** audit logs and audit log settings verified that use of identification and authentication mechanisms is logged.	*<Report Findings Here>*					
10.2.5.b Verify all elevation of privileges is logged.	*For all items in the sample at 10.2,* **describe how** audit logs and audit log settings verified that all elevation of privileges is logged.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
10.2.5.c Verify all changes, additions, or deletions to any account with root or administrative privileges are logged.	*For all items in the sample at 10.2,* **describe how** audit logs and audit log settings verified that all changes, additions, or deletions to any account with root or administrative privileges are logged.	*<Report Findings Here>*					
10.2.6 Initialization, stopping, or pausing of the audit logs.			☐	☐	☐	☐	☐
10.2.6 Verify the following are logged: • Initialization of audit logs. • Stopping or pausing of audit logs.	*For all items in the sample at 10.2,* **describe how** audit logs and audit log settings verified that initialization of audit logs is logged.	*<Report Findings Here>*					
	For all items in the sample at 10.2, **describe how** audit logs and audit log settings verified that stopping and pausing of audit logs is logged.	*<Report Findings Here>*					
10.2.7 Creation and deletion of system-level objects.			☐	☐	☐	☐	☐
10.2.7 Verify creation and deletion of system level objects are logged.	*For all items in the sample at 10.2,* **describe how** audit logs and audit log settings verified that creation and deletion of system level objects are logged.	*<Report Findings Here>*					
10.3 Record at least the following audit trail entries for all system components for each event:			☐	☐	☐	☐	☐
10.3 Through interviews and observation of audit logs, for each auditable event (from 10.2), perform the following:	**Identify the responsible personnel** interviewed who confirm that for each auditable event from 10.2.1-10.2.7, the following are included in log entries: • User identification • Type of event • Date and time • Success or failure indication • Origination of event	*<Report Findings Here>*					
	Identify the sample of audit logs from 10.2.1-10.2.7 observed to verify the following are included in log entries: • User identification • Type of event • Date and time • Success or failure indication • Origination of event	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
10.3.1 User identification			☐	☐	☐	☐	☐
10.3.1 Verify user identification is included in log entries.	*For all logs in the sample at 10.3,* **describe how** the audit logs verified that user identification is included in log entries.	*<Report Findings Here>*					
10.3.2 Type of event			☐	☐	☐	☐	☐
10.3.2 Verify type of event is included in log entries.	*For all logs in the sample at 10.3,* **describe how** the audit logs verified that type of event is included in log entries.	*<Report Findings Here>*					
10.3.3 Date and time			☐	☐	☐	☐	☐
10.3.3 Verify date-and-time stamp is included in log entries.	*For all logs in the sample at 10.3,* **describe how** the audit logs verified that date and time stamp is included in log entries.	*<Report Findings Here>*					
10.3.4 Success or failure indication			☐	☐	☐	☐	☐
10.3.4 Verify success or failure indication is included in log entries.	*For all logs in the sample at 10.3,* **describe how** the audit logs verified that success or failure indication is included in log entries.	*<Report Findings Here>*					
10.3.5 Origination of event			☐	☐	☐	☐	☐
10.3.5 Verify origination of event is included in log entries.	*For all logs in the sample at 10.3,* **describe how** the audit logs verified that origination of event is included in log entries.	*<Report Findings Here>*					
10.3.6 Identity or name of affected data, system component, or resource			☐	☐	☐	☐	☐
10.3.6 Verify identity or name of affected data, system component, or resources is included in log entries.	*For all logs in the sample at 10.3,* **describe how** the audit logs verified that the identity or name of affected data, system component, or resource is included in log entries.	*<Report Findings Here>*					
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. *Note: One example of time synchronization technology is Network Time Protocol (NTP).*			☐	☐	☐	☐	☐
10.4 Examine configuration standards and processes to verify that time-	**Identify** the time-synchronization technologies in use. (If NTP, include version)	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
synchronization technology is implemented and kept current per PCI DSS Requirements 6.1 and 6.2.	**Identify the documented time-synchronization configuration standards** examined to verify that time synchronization technology is implemented and kept current per PCI DSS Requirements 6.1 and 6.2.	*<Report Findings Here>*					
	Describe how processes were examined to verify that time synchronization technologies are:						
	• Implemented.	*<Report Findings Here>*					
	• Kept current, per the documented process.	*<Report Findings Here>*					
10.4.1 Critical systems have the correct and consistent time.			☐	☐	☐	☐	☐
10.4.1.a Examine the process for acquiring, distributing and storing the correct time within the organization to verify that: • Only the designated central time server(s) receive time signals from external sources, and time signals from external sources are based on International Atomic Time or UTC. • Where there is more than one designated time server, the time servers peer with one another to keep accurate time. • Systems receive time information only from designated central time server(s).	**Describe how** the process for acquiring, distributing, and storing the correct time within the organization was examined to verify the following:						
	▪ Only the designated central time server(s) receive time signals from external sources, and time signals from external sources are based on International Atomic Time or UTC.	*<Report Findings Here>*					
	▪ Where there is more than one designated time server, the time servers peer with one another to keep accurate time.	*<Report Findings Here>*					
	▪ Systems receive time information only from designated central time server(s).	*<Report Findings Here>*					
10.4.1.b Observe the time-related system-parameter settings for a sample of system components to verify: • Only the designated central time server(s) receive time signals from external sources, and time signals from external sources are based on International Atomic Time or UTC. • Where there is more than one designated time server, the designated	**Identify the sample** of system components selected for 10.4.1.b-10.4.2.b	*<Report Findings Here>*					
	For all items in the sample, **describe how** the time-related system-parameter settings verified:						
	▪ Only the designated central time server(s) receive time signals from external sources, and time signals from external sources are based on International Atomic Time or UTC.	*<Report Findings Here>*					
	▪ Where there is more than one designated time server, the designated central time server(s) peer with one another to keep accurate time.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
central time server(s) peer with one another to keep accurate time. • Systems receive time only from designated central time server(s).	▪ Systems receive time only from designated central time server(s).	*<Report Findings Here>*					
10.4.2 Time data is protected.			☐	☐	☐	☐	☐
10.4.2.a Examine system configurations and time-synchronization settings to verify that access to time data is restricted to only personnel with a business need to access time data.	*For all items in the sample from 10.4.1,* **describe how** configuration settings verified that access to time data is restricted to only personnel with a business need to access time data.	*<Report Findings Here>*					
10.4.2.b Examine system configurations, time synchronization settings and logs, and processes to verify that any changes to time settings on critical systems are logged, monitored, and reviewed.	*For all items in the sample from 10.4.1,* **describe how** configuration settings and time synchronization settings verified that any changes to time settings on critical systems are logged.	*<Report Findings Here>*					
	For all items in the sample from 10.4.1, **describe how** the examined logs verified that any changes to time settings on critical systems are logged.	*<Report Findings Here>*					
	Describe how time synchronization processes were examined to verify changes to time settings on critical systems are:						
	• Logged	*<Report Findings Here>*					
	• Monitored	*<Report Findings Here>*					
	• Reviewed	*<Report Findings Here>*					
10.4.3 Time settings are received from industry-accepted time sources.			☐	☐	☐	☐	☐
10.4.3 Examine systems configurations to verify that the time server(s) accept time updates from specific, industry-accepted external sources (to prevent a malicious individual from changing the clock). Optionally, those updates can be	**Identify the sample** of time servers selected for this testing procedure.	*<Report Findings Here>*					
	For all items in the sample, **describe how** configuration settings verified either of the following:						
	• That the time servers receive time updates from specific, industry-accepted external sources. OR	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
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).	• That time updates are encrypted with a symmetric key, and access control lists specify the IP addresses of client machines.	*<Report Findings Here>*					
10.5 Secure audit trails so they cannot be altered.			☐	☐	☐	☐	☐

10.5 Interview system administrators and examine system configurations and permissions to verify that audit trails are secured so that they cannot be altered as follows:	**Identify the system administrators** interviewed who confirm that audit trails are secured so that they cannot be altered as follows (from 10.5.1-10.5.5):
	• Only individuals who have a job-related need can view audit trail files.
	• Current audit trail files are protected from unauthorized modifications via access control mechanisms, physical segregation, and/or network segregation.
	• Current audit trail files are promptly backed up to a centralized log server or media that is difficult to alter, including:
	  – That current audit trail files are promptly backed up to the centralized log server or media
	  – The frequency that audit trail files are backed up
	  – That the centralized log server or media is difficult to alter
	• Logs for external-facing technologies (for example, wireless, firewalls, DNS, mail) are written onto a secure, centralized, internal log server or media.
	• Use file-integrity monitoring or change-detection software on logs to ensure that existing log data cannot be changed without generating alerts.
		<Report Findings Here>					

	Identify the sample of system components selected for 10.5.1-10.5.5.	*<Report Findings Here>*					
10.5.1 Limit viewing of audit trails to those with a job-related need.			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
10.5.1 Only individuals who have a job-related need can view audit trail files.	*For each item in the sample at 10.5,* **describe how** system configurations and permissions verified that only individuals who have a job-related need can view audit trail files.	*<Report Findings Here>*					
10.5.2 Protect audit trail files from unauthorized modifications.			☐	☐	☐	☐	☐
10.5.2 Current audit trail files are protected from unauthorized modifications via access control mechanisms, physical segregation, and/or network segregation.	*For each item in the sample at 10.5,* **describe how** system configurations and permissions verified that current audit trail files are protected from unauthorized modifications via access control mechanisms, physical segregation, and/or network segregation.	*<Report Findings Here>*					
10.5.3 Promptly back up audit trail files to a centralized log server or media that is difficult to alter.			☐	☐	☐	☐	☐
10.5.3 Current audit trail files are promptly backed up to a centralized log server or media that is difficult to alter.	*For each item in the sample at 10.5,* **describe how** system configurations and permissions verified that current audit trail files are promptly backed up to a centralized log server or media that is difficult to alter.	*<Report Findings Here>*					
10.5.4 Write logs for external-facing technologies onto a secure, centralized, internal log server or media device.			☐	☐	☐	☐	☐
10.5.4 Logs for external-facing technologies (for example, wireless, firewalls, DNS, mail) are written onto a secure, centralized, internal log server or media.	*For each item in the sample at 10.5,* **describe how** system configurations and permissions verified that logs for external-facing technologies are written onto a secure, centralized, internal log server or media.	*<Report Findings Here>*					
10.5.5 Use file-integrity monitoring or change-detection software on logs to ensure that existing log data cannot be changed without generating alerts (although new data being added should not cause an alert).			☐	☐	☐	☐	☐
10.5.5 Examine system settings, monitored files, and results from monitoring activities to verify the use of file-integrity monitoring or change-detection software on logs.	*For each item in the sample at 10.5,* **describe how** the following verified the use of file-integrity monitoring or change-detection software on logs:						
	• System settings	*<Report Findings Here>*					
	• Monitored files	*<Report Findings Here>*					
	• Results from monitoring activities	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
	Identify the file-integrity monitoring (FIM) or change-detection software verified to be in use.	*<Report Findings Here>*					
10.6 Review logs and security events for all system components to identify anomalies or suspicious activity.							
Note: Log harvesting, parsing, and alerting tools may be used to meet this Requirement.							
10.6 Perform the following:							
10.6.1 Review the following at least daily: • 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.).			☐	☐	☐	☐	☐
10.6.1.a Examine security policies and procedures to verify that procedures are defined for, reviewing the following 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.).	**Identify the documented security policies and procedures** examined to verify that procedures define reviewing the following 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.	*<Report Findings Here>*					
	Describe the manual or log tools used for daily review of logs.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
10.6.1.b Observe processes and interview personnel to verify that the following are reviewed at least daily: • 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.)	**Identify the responsible personnel** interviewed who confirm that the following are reviewed at least daily: • 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.	*<Report Findings Here>*					
	Describe how processes were observed to verify that the following are reviewed at least daily:						
	• All security events.	*<Report Findings Here>*					
	• Logs of all system components that store, process, or transmit CHD and/or SAD.	*<Report Findings Here>*					
	• Logs of all critical system components.	*<Report Findings Here>*					
	• Logs of all servers and system components that perform security functions.	*<Report Findings Here>*					
10.6.2 Review logs of all other system components periodically based on the organization's policies and risk management strategy, as determined by the organization's annual risk assessment.			☐	☐	☐	☐	☐
10.6.2.a Examine security policies and procedures to verify that procedures are defined for reviewing logs of all other system components periodically—either manually or via log tools—based on the organization's policies and risk management strategy.	**Identify the documented security policies and procedures** examined to verify that procedures define reviewing logs of all other system components periodically—either manually or via log tools—based on the organization's policies and risk management strategy.	*<Report Findings Here>*					
	Describe the manual or log tools defined for periodic review of logs of all other system components.	*<Report Findings Here>*					
10.6.2.b Examine the organization's risk assessment documentation and interview personnel to verify that reviews are performed in accordance with	**Identify the organization's risk assessment documentation** examined to verify that reviews are performed in accordance with the organization's policies and risk management strategy.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
organization's policies and risk management strategy.	**Identify the responsible personnel** interviewed who confirm that reviews are performed in accordance with organization's policies and risk management strategy.	*<Report Findings Here>*					
10.6.3 Follow up exceptions and anomalies identified during the review process.			☐	☐	☐	☐	☐
10.6.3.a Examine security policies and procedures to verify that procedures are defined for following up on exceptions and anomalies identified during the review process.	**Identify the documented security policies and procedures** examined to verify that procedures define following up on exceptions and anomalies identified during the review process.	*<Report Findings Here>*					
10.6.3.b Observe processes and interview personnel to verify that follow-up to exceptions and anomalies is performed.	**Describe how** processes were observed to verify that follow-up to exceptions and anomalies is performed.	*<Report Findings Here>*					
	Identify the responsible personnel interviewed who confirm that follow-up to exceptions and anomalies is performed.	*<Report Findings Here>*					
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).			☐	☐	☐	☐	☐
10.7.a Examine security policies and procedures to verify that they define the following: • Audit log retention policies. • Procedures for retaining audit logs for at least one year, with a minimum of three months immediately available online.	**Identify the documented security policies and procedures** examined to verify that procedures define the following: • Audit log retention policies. • Procedures for retaining audit logs for at least one year, with a minimum of three months immediately available online.	*<Report Findings Here>*					
10.7.b Interview personnel and examine audit logs to verify that audit logs are retained for at least one year.	**Identify the responsible personnel** interviewed who confirm that audit logs are retained for at least one year.	*<Report Findings Here>*					
	Describe how the audit logs verified that audit logs are retained for at least one year.	*<Report Findings Here>*					
10.7.c Interview personnel and observe processes to verify that at least the last	**Identify the responsible personnel** interviewed who confirm that at least the last three months' logs are immediately available for analysis.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
three months' logs are immediately available for analysis.	**Describe how** processes were observed to verify that at least the last three months' logs are immediately available for analysis.	*<Report Findings Here>*					
10.8 *Additional requirement for service providers only*: Implement a process for the timely detection and reporting of failures of critical security control systems, including but not limited to failure of: • Firewalls • IDS/IPS • FIM • Anti-virus • Physical access controls • Logical access controls • Audit logging mechanisms • Segmentation controls (if used)			☐	☐	☐	☐	☐
10.8.a Examine documented policies and procedures to verify that processes are defined for the timely detection and reporting of failures of critical security control systems, including but not limited to failure of: • Firewalls • IDS/IPS • FIM • Anti-virus • Physical access controls • Logical access controls • Audit logging mechanisms • Segmentation controls (if used)	**Identify the documented policies and procedures** examined to verify that processes are defined for the timely detection and reporting of failures of critical security control systems, including but not limited to failure of: • Firewalls • IDS/IPS • FIM • Anti-virus • Physical access controls • Logical access controls • Audit logging mechanisms • Segmentation controls (if used)	*<Report Findings Here>*					
10.8.b Examine detection and alerting processes and interview personnel to verify that processes are implemented for all critical security controls, and that	**Identify the responsible personnel** interviewed who confirm that processes are implemented for all critical security controls, and that failure of a critical security control results in the generation of an alert.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
failure of a critical security control results in the generation of an alert.	**Describe how** examination of the detection and alerting processes verified that processes are implemented for all critical security controls, and that failure of a critical security control results in the generation of an alert.	*<Report Findings Here>*					
10.8.1 *Additional requirement for service providers only*: Respond to failures of any critical security controls in a timely manner. Processes for responding to failures in security controls must include: • Restoring security functions • Identifying and documenting the duration (date and time start to end) of the security failure • Identifying and documenting cause(s) of failure, including root cause, and documenting remediation required to address root cause • Identifying and addressing any security issues that arose during the failure • Performing a risk assessment to determine whether further actions are required as a result of the security failure • Implementing controls to prevent cause of failure from reoccurring • Resuming monitoring of security controls			☐	☐	☐	☐	☐
10.8.1.a Examine documented policies and procedures and interview personnel to verify processes are defined and implemented to respond to a security control failure, and include: • Restoring security functions • Identifying and documenting the duration (date and time start to end) of the security failure • Identifying and documenting cause(s) of failure, including root cause, and documenting remediation required to address root cause • Identifying and addressing any security issues that arose during the failure • Performing a risk assessment to determine whether further actions are	**Identify the documented policies and procedures** examined to verify that processes are defined and implemented to respond to a security control failure, and include: • Restoring security functions • Identifying and documenting the duration (date and time start to end) of the security failure • Identifying and documenting cause(s) of failure, including root cause, and documenting remediation required to address root cause • Identifying and addressing any security issues that arose during the failure • Performing a risk assessment to determine whether further actions are required as a result of the security failure • Implementing controls to prevent cause of failure from reoccurring • Resuming monitoring of security controls	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
required as a result of the security failure • Implementing controls to prevent cause of failure from reoccurring • Resuming monitoring of security controls	**Identify the responsible personnel** interviewed who confirm that processes are defined and implemented to respond to a security control failure, and include: • Restoring security functions • Identifying and documenting the duration (date and time start to end) of the security failure • Identifying and documenting cause(s) of failure, including root cause, and documenting remediation required to address root cause • Identifying and addressing any security issues that arose during the failure • Performing a risk assessment to determine whether further actions are required as a result of the security failure • Implementing controls to prevent cause of failure from reoccurring • Resuming monitoring of security controls	*<Report Findings Here>*					
10.8.1.b Examine records to verify that security control failures are documented to include: • Identification of cause(s) of the failure, including root cause • Duration (date and time start and end) of the security failure • Details of the remediation required to address the root cause	**Identify the sample of records** examined to verify that security control failures are documented to include: • Identification of cause(s) of the failure, including root cause • Duration (date and time start and end) of the security failure • Details of the remediation required to address the root cause	*<Report Findings Here>*					
	For each sampled record, **describe how** the documented security control failures include: • Identification of cause(s) of the failure, including root cause • Duration (date and time start and end) of the security failure • Details of the remediation required to address the root cause	*<Report Findings Here>*					
10.9 Ensure that security policies and operational procedures for monitoring all access to network resources and cardholder data are documented, in use, and known to all affected parties.			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
10.9 Examine documentation and interview personnel to verify that security policies and operational procedures for monitoring all access to network resources and cardholder data are: • Documented, • In use, and • Known to all affected parties.	**Identify the document** reviewed to verify that security policies and operational procedures for monitoring all access to network resources and cardholder data are documented.	<Report Findings Here>					
	Identify the responsible personnel interviewed who confirm that the above documented security policies and operational procedures for monitoring all access to network resources and cardholder data are: • In use • Known to all affected parties	<Report Findings Here>					

Requirement 11: Regularly test security systems and processes

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
11.1 Implement processes to test for the presence of wireless access points (802.11), and detect and identify all authorized and unauthorized wireless access points on a quarterly basis. ***Note:*** *Methods that may be used in the process include but are not limited to wireless network scans, physical/logical inspections of system components and infrastructure, network access control (NAC), or wireless IDS/IPS.* Whichever methods are used, they must be sufficient to detect and identify both authorized and unauthorized devices.			☐	☐	☐	☐	☐
11.1.a Examine policies and procedures to verify processes are defined for detection and identification of both authorized and unauthorized wireless access points on a quarterly basis.	**Identify the documented policies and procedures** examined to verify processes are defined for detection and identification of authorized and unauthorized wireless access points on a quarterly basis.	*<Report Findings Here>*					
11.1.b Verify that the methodology is adequate to detect and identify any unauthorized wireless access points, including at least the following: • WLAN cards inserted into system components. • Portable or mobile devices attached to system components to create a wireless access point (for example, by USB, etc.). • Wireless devices attached to a network port or network device.	**Provide the name of the assessor** who attests that the methodology is adequate to detect and identify any unauthorized wireless access points, including at least the following: • WLAN cards inserted into system components. • Portable or mobile devices attached to system components to create a wireless access point (for example, by USB, etc.). • Wireless devices attached to a network port or network device.	*<Report Findings Here>*					
11.1.c If wireless scanning is utilized, examine output from recent wireless scans to verify that:	**Indicate whether** wireless scanning is utilized. **(yes/no)** *If 'no,' mark the remainder of 11.1.c as 'not applicable.'*	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
• Authorized and unauthorized wireless access points are identified, and • The scan is performed at least quarterly for all system components and facilities.	If 'yes,' **Identify/describe** the output from recent wireless scans examined to verify that: • Authorized wireless access points are identified. • Unauthorized wireless access points are identified. • The scan is performed at least quarterly. • The scan covers all system components. • The scan covers all facilities.	*<Report Findings Here>*					
11.1.d If automated monitoring is utilized (for example, wireless IDS/IPS, NAC, etc.), verify the configuration will generate alerts to notify personnel.	**Indicate whether** automated monitoring is utilized. **(yes/no)**	*<Report Findings Here>*					
	If "no," mark the remainder of 11.1.d as "Not Applicable." If "yes," complete the following:						
	Identify and describe any automated monitoring technologies in use.	*<Report Findings Here>*					
	For each monitoring technology in use, **describe how** the technology generates alerts to personnel.	*<Report Findings Here>*					
11.1.1 Maintain an inventory of authorized wireless access points including a documented business justification.			☐	☐	☐	☐	☐
11.1.1 Examine documented records to verify that an inventory of authorized wireless access points is maintained and a business justification is documented for all authorized wireless access points.	**Identify the documented inventory records** of authorized wireless access points examined to verify that an inventory of authorized wireless access points is maintained and a business justification is documented for all authorized wireless access points.	*<Report Findings Here>*					
11.1.2 Implement incident response procedures in the event unauthorized wireless access points are detected.			☐	☐	☐	☐	☐
11.1.2.a Examine the organization's incident response plan (Requirement 12.10) to verify it defines and requires a response in the event that an unauthorized wireless access point is detected.	**Identify the Incident Response Plan document** examined that defines and requires response in the event that an unauthorized wireless access point is detected.	*<Report Findings Here>*					
11.1.2.b Interview responsible personnel and/or inspect recent wireless scans and	**Identify the responsible personnel** interviewed for this testing procedure.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
related responses to verify action is taken when unauthorized wireless access points are found.	For the interview, **summarize the relevant details** discussed that verify that action is taken when unauthorized wireless access points are found.	*<Report Findings Here>*					
	And/or:						
	Identify the recent wireless scans inspected for this testing procedure.	*<Report Findings Here>*					
	Describe how the recent wireless scans and related responses verified that action is taken when unauthorized wireless access points are found.	*<Report Findings Here>*					
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). *Note: Multiple scan reports can be combined for the quarterly scan process to show that all systems were scanned and all applicable vulnerabilities have been addressed. Additional documentation may be required to verify non-remediated vulnerabilities are in the process of being addressed.* *For initial PCI DSS compliance, it is not required that four quarters of passing scans be completed if the assessor verifies 1) the most recent scan result was a passing scan, 2) the entity has documented policies and procedures requiring quarterly scanning, and 3) vulnerabilities noted in the scan results have been corrected as shown in a re-scan(s). For subsequent years after the initial PCI DSS review, four quarters of passing scans must have occurred.*			☐	☐	☐	☐	☐
11.2 Examine scan reports and supporting documentation to verify that internal and external vulnerability scans are performed as follows:							
11.2.1 Perform quarterly internal vulnerability scans. Address vulnerabilities and perform rescans to verify all "high-risk" vulnerabilities are resolved in accordance with the entity's vulnerability ranking (per Requirement 6.1). Scans must be performed by qualified personnel.			☐	☐	☐	☐	☐
11.2.1.a Review the scan reports and verify that four quarterly internal scans occurred in the most recent 12-month period.	**Identify the internal vulnerability scan reports and supporting documentation** reviewed.	*<Report Findings Here>*					
	Provide the name of the assessor who attests that four quarterly internal scans were verified to have occurred in the most recent 12-month period.	*<Report Findings Here>*					
11.2.1.b Review the scan reports and verify that all "high-risk" vulnerabilities are addressed and the scan process includes rescans to verify that the "high-	**Identify the documented process for quarterly internal scanning** to verify the process defines performing rescans as part of the quarterly internal scan process.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
risk" vulnerabilities as defined in PCI DSS Requirement 6.1 are resolved.	*For each of the four internal quarterly scans indicated at 11.2.1.a,* **indicate whether** *a rescan was required.* **(yes/no)**	*<Report Findings Here>*					
	If "yes," **describe how** *rescans were verified to be performed until all "high-risk" vulnerabilities as defined in PCI DSS Requirement 6.1 are resolved.*	*<Report Findings Here>*					
11.2.1.c Interview personnel to verify that the scan was performed by a qualified internal resource(s) or qualified external third party, and if applicable, organizational independence of the tester exists (not required to be a QSA or ASV).	**Identify the responsible personnel** interviewed for this testing procedure.	*<Report Findings Here>*					
	Indicate whether a qualified internal resource performs the scan. **(yes/no)** *If "no," mark the remainder of 11.2.1.c as "Not Applicable."* *If "yes," complete the following:*	*<Report Findings Here>*					
	For the interview, **summarize the relevant details** discussed that verify:						
	▪ The scan was performed by a qualified internal resource	*<Report Findings Here>*					
	▪ Organizational independence of the tester exists.	*<Report Findings Here>*					
11.2.2 Perform quarterly external vulnerability scans, via an Approved Scanning Vendor (ASV) approved by the Payment Card Industry Security Standards Council (PCI SSC). Perform rescans as needed, until passing scans are achieved. **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.*			☐	☐	☐	☐	☐
11.2.2.a Review output from the four most recent quarters of external vulnerability scans and verify that four quarterly external vulnerability scans occurred in the most recent 12-month period.	**Identify the external network vulnerability scan reports and supporting documentation** reviewed.	*<Report Findings Here>*					
	Provide the name of the assessor who attests that four quarterly external vulnerability scans were verified to have occurred in the most recent 12-month period.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
11.2.2.b Review the results of each quarterly scan and rescan to verify that the ASV Program Guide requirements for a passing scan have been met (for example, no vulnerabilities rated 4.0 or higher by the CVSS, no automatic failures).	**Provide the name of the assessor** who attests that the results of each quarterly scan were reviewed and verified that the ASV Program Guide requirements for a passing scan have been met.	*<Report Findings Here>*					
	For each of the four external quarterly scans indicated at 11.2.2.a, **indicate whether** a rescan was necessary. **(yes/no)**	*<Report Findings Here>*					
	If "yes," **describe how** the results of the rescan verified that the ASV Program Guide requirements for a passing scan have been met.	*<Report Findings Here>*					
11.2.2.c Review the scan reports to verify that the scans were completed by a PCI SSC Approved Scanning Vendor (ASV).	**Provide the name of the assessor** who attests that the external scan reports were reviewed and verified to have been completed by a PCI SSC-Approved Scanning Vendor (ASV).	*<Report Findings Here>*					
11.2.3 Perform internal and external scans, and rescans as needed, after any significant change. Scans must be performed by qualified personnel.			☐	☐	☐	☐	☐
11.2.3.a Inspect and correlate change control documentation and scan reports to verify that system components subject to any significant change were scanned.	**Identify the change control documentation and scan reports** reviewed for this testing procedure.	*<Report Findings Here>*					
	Describe how the change control documentation and scan reports verified that all system components subject to significant change were scanned after the change.	*<Report Findings Here>*					
11.2.3.b Review scan reports and verify that the scan process includes rescans until: • For external scans, no vulnerabilities exist that are scored 4.0 or higher by the CVSS. • For internal scans, all "high-risk" vulnerabilities as defined in PCI DSS Requirement 6.1 are resolved.	For all scans reviewed in 11.2.3.a, **indicate whether** a rescan was required. **(yes/no)**	*<Report Findings Here>*					
	If "yes" – for external scans, **describe how** rescans were performed until no vulnerabilities with a CVSS score greater than 4.0 exist.	*<Report Findings Here>*					
	If "yes" – for internal scans, **describe how** rescans were performed until either passing results were obtained or all "high-risk" vulnerabilities as defined in PCI DSS Requirement 6.1 were resolved.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
11.2.3.c Validate that the scan was performed by a qualified internal resource(s) or qualified external third party, and if applicable, organizational independence of the tester exists (not required to be a QSA or ASV).	**Indicate whether** an internal resource performed the scans. **(yes/no)** *If "no," mark the remainder of 11.2.3.c as "Not Applicable." If "yes," complete the following:*	*<Report Findings Here>*					
	Describe how the personnel who perform the scans demonstrated they are qualified to perform the scans.	*<Report Findings Here>*					
	Describe how organizational independence of the tester was observed to exist.	*<Report Findings Here>*					
11.3 Implement a methodology for penetration testing that includes at least 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 of 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.			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
11.3 Examine penetration-testing methodology and interview responsible personnel to verify a methodology is implemented and includes at least the following: • Is based on industry-accepted penetration testing approaches. • 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.	**Identify the documented penetration-testing methodology** examined to verify a methodology is implemented that includes at least the following: • Based on industry-accepted penetration testing approaches. • Coverage for the entire CDE perimeter and critical systems. • Testing from both inside and outside the network. • 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. • Review and consideration of threats and vulnerabilities experienced in the last 12 months. • Retention of penetration testing results and remediation activities results.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
	Identify the responsible personnel interviewed who confirm the penetration–testing methodology implemented includes at least the following: • Based on industry-accepted penetration testing approaches. • Coverage for the entire CDE perimeter and critical systems. • Testing from both inside and outside the network. • 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. • Review and consideration of threats and vulnerabilities experienced in the last 12 months. • Retention of penetration testing results and remediation activities results.	*<Report Findings Here>*					
11.3.1 Perform *external* penetration testing at least annually 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).			☐	☐	☐	☐	☐
11.3.1.a Examine the scope of work and results from the most recent external penetration test to verify that penetration testing is performed as follows: • Per the defined methodology • At least annually • After any significant changes to the environment	**Identify the documented external penetration test results** reviewed to verify that external penetration testing is performed: • Per the defined methodology • At least annually	*<Report Findings Here>*					
	Describe how the scope of work verified that external penetration testing is performed: • Per the defined methodology • At least annually	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
	Identify whether any significant external infrastructure or application upgrade or modification occurred during the past 12 months.	*<Report Findings Here>*					
	Identify the documented penetration test results reviewed to verify that external penetration tests are performed after significant external infrastructure or application upgrade.	*<Report Findings Here>*					
11.3.1.b Verify that the test was performed by a qualified internal resource or qualified external third party, and if applicable, organizational independence of the tester exists (not required to be a QSA or ASV).	**Indicate whether** an internal resource performed the test. **(yes/no)** *If "no," mark the remainder of 11.3.1.b as "Not Applicable."* *If "yes," complete the following:*	*<Report Findings Here>*					
	Describe how the personnel who perform the penetration tests demonstrated they are qualified to perform the tests.	*<Report Findings Here>*					
	Describe how organizational independence of the tester was observed to exist.	*<Report Findings Here>*					
11.3.2 Perform **internal** penetration testing at least annually 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).			☐	☐	☐	☐	☐
11.3.2.a Examine the scope of work and results from the most recent internal penetration test to verify that penetration testing is performed as follows: • Per the defined methodology • At least annually • After any significant changes to the environment	**Identify the documented internal penetration test results** reviewed to verify that internal penetration testing is performed: • Per the defined methodology • At least annually	*<Report Findings Here>*					
	Describe how the scope of work verified that internal penetration testing is performed: • Per the defined methodology • At least annually	*<Report Findings Here>*					
	Indicate whether any significant internal infrastructure or application upgrade or modification occurred during the past 12 months. **(yes/no)**	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
	Identify the documented internal penetration test results reviewed to verify that internal penetration tests are performed after significant internal infrastructure or application upgrade.	*<Report Findings Here>*					
11.3.2.b Verify that the test was performed by a qualified internal resource or qualified external third party, and if applicable, organizational independence of the tester exists (not required to be a QSA or ASV).	**Indicate whether** an internal resource performed the test. **(yes/no)** *If "no," mark the remainder of 11.3.2.b as "Not Applicable."* *If "yes," complete the following:*	*<Report Findings Here>*					
	Describe how the personnel who perform the penetration tests demonstrated they are qualified to perform the tests	*<Report Findings Here>*					
	Describe how organizational independence of the tester was observed to exist.	*<Report Findings Here>*					
11.3.3 Exploitable vulnerabilities found during penetration testing are corrected and testing is repeated to verify the corrections.			☐	☐	☐	☐	☐
11.3.3 Examine penetration testing results to verify that noted exploitable vulnerabilities were corrected and that repeated testing confirmed the vulnerability was corrected.	**Identify the documented penetration testing results** examined to verify that noted exploitable vulnerabilities were corrected and that repeated testing confirmed the vulnerability was corrected.	*<Report Findings Here>*					
11.3.4 If segmentation is used to isolate the CDE from other networks, perform penetration tests at least annually and after any changes to segmentation controls/methods to verify that the segmentation methods are operational and effective, and isolate all out-of-scope systems from systems in the CDE.			☐	☐	☐	☐	☐
11.3.4.a Examine segmentation controls and review penetration-testing methodology to verify that penetration-testing procedures are 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.	**Indicate whether** segmentation is used to isolate the CDE from other networks. **(yes/no)** *If "no," mark the remainder of 11.3.4.a, 11.3.4.b and 11.3.4.c as "Not Applicable."*	*<Report Findings Here>*					
	If "yes," **identify the defined penetration-testing methodology** examined to verify procedures are 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.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
	Describe how the segmentation controls verified that segmentation methods:						
	▪ Are operational and effective.	*<Report Findings Here>*					
	▪ Isolate all out-of-scope systems from systems in the CDE.	*<Report Findings Here>*					
11.3.4.b Examine the results from the most recent penetration test to verify that: • Penetration testing to verify segmentation controls is performed at least annually and after any changes to segmentation controls/methods. • The penetration testing covers all segmentation controls/methods in use. • The penetration testing verifies that segmentation controls/methods are operational and effective, and isolate all out-of-scope systems from systems in the CDE.	**Identify the documented results from the most recent penetration test** examined to verify that: • Penetration testing to verify segmentation controls is performed at least annually and after any changes to segmentation controls/methods. • The penetration testing covers all segmentation controls/methods in use. • The penetration testing verifies that segmentation controls/methods are operational and effective, and isolate all out-of-scope systems from systems in the CDE.	*<Report Findings Here>*					
11.3.4.c Verify that the test was performed by a qualified internal resource or qualified external third party, and if applicable, organizational independence of the tester exists (not required to be a QSA or ASV).	**Describe how** the personnel who perform the penetration tests demonstrated they are qualified to perform the tests.	*<Report Findings Here>*					
	Describe how organizational independence of the tester was observed to exist.	*<Report Findings Here>*					
11.3.4.1 *Additional requirement for service providers only***:** If segmentation is used, confirm PCI DSS scope by performing penetration testing on segmentation controls at least every six months and after any changes to segmentation controls/methods.			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
11.3.4.1.a Examine the results from the most recent penetration test to verify that: • Penetration testing is performed to verify segmentation controls at least every six months and after any changes to segmentation controls/methods. • The penetration testing covers all segmentation controls/methods in use. • The penetration testing verifies that segmentation controls/methods are operational and effective, and isolate all out-of-scope systems from systems in the CDE.	**Identify the documented results from the most recent penetration test** examined to verify that: • Penetration testing is performed to verify segmentation controls at least every six months and after any changes to segmentation controls/methods. • The penetration testing covers all segmentation controls/methods in use. • The penetration testing verifies that segmentation controls/methods are operational and effective, and isolate all out-of-scope systems from systems in the CDE.	*<Report Findings Here>*					
11.3.4.1.b Verify that the test was performed by a qualified internal resource or qualified external third party, and if applicable, organizational independence of the tester exists (not required to be a QSA or ASV).	**Describe how** the personnel who perform the penetration tests demonstrated they are qualified to perform the tests.	*<Report Findings Here>*					
	Describe how organizational independence of the tester was observed to exist.	*<Report Findings Here>*					
11.4 Use intrusion-detection systems and/or intrusion-prevention techniques to detect and/or prevent intrusions into the network. Monitor all traffic at the perimeter of the cardholder data environment as well as at critical points in the cardholder data environment, and alert personnel to suspected compromises. Keep all intrusion-detection and prevention engines, baselines, and signatures up-to-date.			☐	☐	☐	☐	☐
11.4.a Examine system configurations and network diagrams to verify that techniques (such as intrusion-detection systems and/or intrusion-prevention systems) are in place to monitor all traffic: • At the perimeter of the cardholder data environment.	**Identify the network diagrams** examined to verify that techniques are in place to monitor all traffic: • At the perimeter of the cardholder data environment. • At critical points in the cardholder data environment.	*<Report Findings Here>*					
	Describe how system configurations verified that techniques are in place to monitor all traffic:						
	• At the perimeter of the cardholder data environment.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
• At critical points in the cardholder data environment.	• At critical points in the cardholder data environment.	*<Report Findings Here>*					
11.4.b Examine system configurations and interview responsible personnel to confirm intrusion-detection and/or intrusion-prevention techniques alert personnel of suspected compromises.	**Describe how** system configurations for intrusion-detection and/or intrusion-prevention techniques verified that they are configured to alert personnel of suspected compromises.	*<Report Findings Here>*					
	Identify the responsible personnel interviewed who confirm that the generated alerts are received as intended.	*<Report Findings Here>*					
11.4.c Examine IDS/IPS configurations and vendor documentation to verify intrusion-detection, and/or intrusion-prevention techniques are configured, maintained, and updated per vendor instructions to ensure optimal protection.	**Identify the vendor document(s)** examined to verify defined vendor instructions for intrusion-detection and/or intrusion-prevention techniques.	*<Report Findings Here>*					
	Describe how IDS/IPS configurations and vendor documentation verified that intrusion-detection, and/or intrusion-prevention techniques are:						
	• Configured per vendor instructions to ensure optimal protection.	*<Report Findings Here>*					
	• Maintained per vendor instructions to ensure optimal protection.	*<Report Findings Here>*					
	• Updated per vendor instructions to ensure optimal protection.	*<Report Findings Here>*					
11.5 Deploy a change-detection mechanism (for example, file-integrity monitoring tools) to alert personnel to unauthorized modification (including changes, additions and deletions) of critical system files, configuration files, or content files; and configure the software to 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).*			☐	☐	☐	☐	☐
11.5.a Verify the use of a change-detection mechanism by observing system settings and monitored files, as	**Describe** the change-detection mechanism deployed.	*<Report Findings Here>*					
	Identify the results from monitored files reviewed to verify the use of a change-detection mechanism.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
well as reviewing results from monitoring activities. *Examples of files that should be monitored:* • *System executables* • *Application executables* • *Configuration and parameter files* • *Centrally stored, historical or archived, log and audit files* • *Additional critical files determined by entity (i.e., through risk assessment or other means)*	**Describe how** the following verified the use of a change-detection mechanism:						
	• System settings	*<Report Findings Here>*					
	• Monitored files	*<Report Findings Here>*					
11.5.b Verify the mechanism is configured to alert personnel to unauthorized modification (including changes, additions and deletions) of critical files, and to perform critical file comparisons at least weekly.	**Describe how** system settings verified that the change-detection mechanism is configured to:						
	• Alert personnel to unauthorized modification (including changes, additions and deletions) of critical files.	*<Report Findings Here>*					
	• Perform critical file comparisons at least weekly.	*<Report Findings Here>*					
11.5.1 Implement a process to respond to any alerts generated by the change-detection solution.			☐	☐	☐	☐	☐
11.5.1 Interview personnel to verify that all alerts are investigated and resolved.	**Identify the responsible personnel** interviewed who confirm that all alerts are investigated and resolved	*<Report Findings Here>*					
11.6 Ensure that security policies and operational procedures for security monitoring and testing are documented, in use, and known to all affected parties.			☐	☐	☐	☐	☐
11.6 Examine documentation and interview personnel to verify that security policies and operational procedures for security monitoring and testing are: • Documented, • In use, and • Known to all affected parties.	**Identify the document** reviewed to verify that security policies and operational procedures for security monitoring and testing are documented.	<Report Findings Here>					
	Identify the responsible personnel interviewed who confirm that the above documented security policies and operational procedures for security monitoring and testing are: • In use • Known to all affected parties	<Report Findings Here>					

Maintain an Information Security Policy

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

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
12.1 Establish, publish, maintain, and disseminate a security policy.			☐	☐	☐	☐	☐
12.1 Examine the information security policy and verify that the policy is published and disseminated to all relevant personnel (including vendors and business partners).	**Identify the documented information security policy** examined.	*<Report Findings Here>*					
	Describe how the information security policy was verified to be published and disseminated to:						
	• All relevant personnel.	*<Report Findings Here>*					
	• All relevant vendors and business partners.	*<Report Findings Here>*					
12.1.1 Review the security policy at least annually and update the policy when business objectives or the risk environment change.			☐	☐	☐	☐	☐
12.1.1 Verify that the information security policy is reviewed at least annually and updated as needed to reflect changes to business objectives or the risk environment.	**Describe how** the information security policy was verified to be:						
	• Reviewed at least annually.	*<Report Findings Here>*					
	• Updated as needed to reflect changes to business objectives or the risk environment.	*<Report Findings Here>*					
12.2 Implement a risk assessment process, that: • Is performed at least annually and upon significant changes to the environment (for example, acquisition, merger, relocation, etc.), • Identifies critical assets, threats, and vulnerabilities, and • Results in a formal, documented analysis of risk. *Examples of risk assessment methodologies include but are not limited to OCTAVE, ISO 27005 and NIST SP 800-30.*			☐	☐	☐	☐	☐
12.2.a Verify that an annual risk-assessment process is documented that: • Identifies critical assets, threats, and vulnerabilities • Results in a formal, documented analysis of risk.	**Provide the name of the assessor** who attests that the documented annual risk-assessment process: • Identifies critical assets, threats, and vulnerabilities • Results in a formal, documented analysis of risk.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
12.2.b Review risk-assessment documentation to verify that the risk-assessment process is performed at least annually and upon significant changes to the environment.	**Identify the risk assessment result documentation** reviewed to verify that the risk-assessment process is performed at least annually and upon significant changes to the environment.	*<Report Findings Here>*					
12.3 Develop usage policies for critical technologies and define proper use of these technologies. *Note: Examples of critical technologies include, but are not limited to, remote access and wireless technologies, laptops, tablets, removable electronic media, e-mail usage and Internet usage.* Ensure these usage policies require the following:			☐	☐	☐	☐	☐
12.3 Examine the usage policies for critical technologies and interview	**Identify** critical technologies in use.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
responsible personnel to verify the following policies are implemented and followed:	**Identify the usage policies for all identified critical technologies** reviewed to verify the following policies (12.3.1-12.3.10) are defined: • Explicit approval from authorized parties to use the technologies. • All technology use to be authenticated with user ID and password or other authentication item. • A list of all devices and personnel authorized to use the devices. • A method to accurately and readily determine owner, contact information, and purpose. • Acceptable uses for the technology. • Acceptable network locations for the technology. • A list of company-approved products. • Automatic disconnect of sessions for remote-access technologies after a specific period of inactivity. • Activation of remote-access technologies used by vendors and business partners only when needed by vendors and business partners, with immediate deactivation after use. • Prohibit copying, moving, or storing of cardholder data onto local hard drives and removable electronic media when accessing such data via remote-access technologies.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
	Identify the responsible personnel interviewed who confirm usage policies for all identified critical technologies are implemented and followed (for 12.3.1–12.3.10): • Explicit approval from authorized parties to use the technologies. • All technology use to be authenticated with user ID and password or other authentication item. • A list of all devices and personnel authorized to use the devices. • A method to accurately and readily determine owner, contact information, and purpose. • Acceptable uses for the technology. • Acceptable network locations for the technology. • A list of company-approved products. • Automatic disconnect of sessions for remote-access technologies after a specific period of inactivity. • Activation of remote-access technologies used by vendors and business partners only when needed by vendors and business partners, with immediate deactivation after use. • Prohibit copying, moving, or storing of cardholder data onto local hard drives and removable electronic media when accessing such data via remote-access technologies.	*<Report Findings Here>*					
12.3.1 Explicit approval by authorized parties.			☐	☐	☐	☐	☐
12.3.1 Verify that the usage policies include processes for explicit approval from authorized parties to use the technologies.	**Provide the name of the assessor** who attests that the usage policies were verified to include processes for explicit approval from authorized parties to use the technologies.	*<Report Findings Here>*					
12.3.2 Authentication for use of the technology.			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
12.3.2 Verify that the usage policies include processes for all technology use to be authenticated with user ID and password or other authentication item (for example, token).	**Provide the name of the assessor** who attests that the usage policies were verified to include processes for all technology use to be authenticated with user ID and password or other authentication item.	*<Report Findings Here>*					
12.3.3 A list of all such devices and personnel with access.			☐	☐	☐	☐	☐
12.3.3 Verify that the usage policies define: • A list of all critical devices, and • A list of personnel authorized to use the devices.	**Provide the name of the assessor** who attests that the usage policies were verified to define: • A list of all critical devices, and • A list of personnel authorized to use the devices.	*<Report Findings Here>*					
12.3.4 A method to accurately and readily determine owner, contact information, and purpose (for example, labeling, coding, and/or inventorying of devices).			☐	☐	☐	☐	☐
12.3.4 Verify that the usage policies define a method to accurately and readily determine owner, contact information, and purpose (for example, labeling, coding, and/or inventorying of devices).	**Provide the name of the assessor** who attests that the usage policies were verified to define a method to accurately and readily determine: • Owner • Contact Information • Purpose	*<Report Findings Here>*					
12.3.5 Acceptable uses of the technology.			☐	☐	☐	☐	☐
12.3.5 Verify that the usage policies define acceptable uses for the technology.	**Provide the name of the assessor** who attests that the usage policies were verified to define acceptable uses for the technology.	*<Report Findings Here>*					
12.3.6 Acceptable network locations for the technologies.			☐	☐	☐	☐	☐
12.3.6 Verify that the usage policies define acceptable network locations for the technology.	**Provide the name of the assessor** who attests that the usage policies were verified to define acceptable network locations for the technology.	*<Report Findings Here>*					
12.3.7 List of company-approved products.			☐	☐	☐	☐	☐
12.3.7 Verify that the usage policies include a list of company-approved products.	**Provide the name of the assessor** who attests that the usage policies were verified to include a list of company-approved products.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
12.3.8 Automatic disconnect of sessions for remote-access technologies after a specific period of inactivity.			☐	☐	☐	☐	☐
12.3.8.a Verify that the usage policies require automatic disconnect of sessions for remote-access technologies after a specific period of inactivity.	**Provide the name of the assessor** who attests that the usage policies were verified to require automatic disconnect of sessions for remote-access technologies after a specific period of inactivity.	*<Report Findings Here>*					
12.3.8.b Examine configurations for remote access technologies to verify that remote access sessions will be automatically disconnected after a specific period of inactivity.	**Identify** any remote access technologies in use	*<Report Findings Here>*					
	Describe how configurations for remote access technologies verified that remote access sessions will be automatically disconnected after a specific period of inactivity.	*<Report Findings Here>*					
12.3.9 Activation of remote-access technologies for vendors and business partners only when needed by vendors and business partners, with immediate deactivation after use.			☐	☐	☐	☐	☐
12.3.9 Verify that the usage policies require activation of remote-access technologies used by vendors and business partners only when needed by vendors and business partners, with immediate deactivation after use.	**Provide the name of the assessor** who attests that the usage policies were verified to require activation of remote-access technologies used by vendors and business partners only when needed by vendors and business partners, with immediate deactivation after use.	*<Report Findings Here>*					
12.3.10 For personnel accessing cardholder data via remote-access technologies, prohibit the copying, moving, and storage of cardholder data onto local hard drives and removable electronic media, unless explicitly authorized for a defined business need. Where there is an authorized business need, the usage policies must require the data be protected in accordance with all applicable PCI DSS Requirements.			☐	☐	☐	☐	☐
12.3.10.a Verify that the usage policies prohibit copying, moving, or storing of cardholder data onto local hard drives and removable electronic media when accessing such data via remote-access technologies.	**Provide the name of the assessor** who attests that the usage policies were verified to prohibit copying, moving or storing of cardholder data onto local hard drives and removable electronic media when accessing such data via remote-access technologies.	*<Report Findings Here>*					
12.3.10.b For personnel with proper authorization, verify that usage policies require the protection of cardholder data in accordance with PCI DSS Requirements.	**Provide the name of the assessor** who attests that the usage policies were verified to require, for personnel with proper authorization, the protection of cardholder data in accordance with PCI DSS Requirements.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
12.4 Ensure that the security policy and procedures clearly define information security responsibilities for all personnel.			☐	☐	☐	☐	☐
12.4.a Verify that information security policy and procedures clearly define information security responsibilities for all personnel.	**Identify the information security policy and procedures** reviewed to verify that they clearly define information security responsibilities for all personnel.	*<Report Findings Here>*					
12.4.b Interview a sample of responsible personnel to verify they understand the security policies.	**Identify the responsible personnel** interviewed for this testing procedure who confirm they understand the security policy.	*<Report Findings Here>*					
12.4.1 *Additional requirement for service providers only:* Executive management shall establish responsibility for the protection of cardholder data and a PCI DSS compliance program to include: • Overall accountability for maintaining PCI DSS compliance • Defining a charter for a PCI DSS compliance program and communication to executive management			☐	☐	☐	☐	☐
12.4.1.a Examine documentation to verify executive management has assigned overall accountability for maintaining the entity's PCI DSS compliance	**Identify the documentation** examined to verify that executive management has assigned overall accountability for maintaining the entity's PCI DSS compliance.	*<Report Findings Here>*					
12.4.1.b Examine the company's PCI DSS charter to verify it outlines the conditions under which the PCI DSS compliance program is organized and communicated to executive management.	**Identify the company's PCI DSS charter** examined to verify it outlines the conditions under which the PCI DSS compliance program is organized and communicated to executive management.	*<Report Findings Here>*					
12.5 Assign to an individual or team the following information security management responsibilities:			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
12.5 Examine information security policies and procedures to verify: • The formal assignment of information security to a Chief Security Officer or other security-knowledgeable member of management. • The following information security responsibilities are specifically and formally assigned:	**Identify the information security policies and procedures** reviewed to verify: • The formal assignment of information security to a Chief Security Officer or other security-knowledgeable member of management. • The following information security responsibilities are specifically and formally assigned:	*<Report Findings Here>*					
12.5.1 Establish, document, and distribute security policies and procedures.			☐	☐	☐	☐	☐
12.5.1 Verify that responsibility for establishing, documenting and distributing security policies and procedures is formally assigned.	**Provide the name of the assessor** who attests that responsibilities were verified to be formally assigned for: • Establishing security policies and procedures. • Documenting security policies and procedures. • Distributing security policies and procedures.	*<Report Findings Here>*					
12.5.2 Monitor and analyze security alerts and information, and distribute to appropriate personnel.			☐	☐	☐	☐	☐
12.5.2 Verify that responsibility for monitoring and analyzing security alerts and distributing information to appropriate information security and business unit management personnel is formally assigned.	**Provide the name of the assessor** who attests that responsibilities were verified to be formally assigned for: • Monitoring and analyzing security alerts. • Distributing information to appropriate information security and business unit management personnel.	*<Report Findings Here>*					
12.5.3 Establish, document, and distribute security incident response and escalation procedures to ensure timely and effective handling of all situations.			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
12.5.3 Verify that responsibility for establishing, documenting, and distributing security incident response and escalation procedures is formally assigned.	**Provide the name of the assessor** who attests that responsibilities were verified to be formally assigned for: • Establishing security incident response and escalation procedures. • Documenting security incident response and escalation procedures. • Distributing security incident response and escalation procedures.	*<Report Findings Here>*					
12.5.4 Administer user accounts, including additions, deletions, and modifications.			☐	☐	☐	☐	☐
12.5.4 Verify that responsibility for administering (adding, deleting, and modifying) user account and authentication management is formally assigned.	**Provide the name of the assessor** who attests that responsibilities were verified to be formally assigned for administering user account and authentication management.	*<Report Findings Here>*					
12.5.5 Monitor and control all access to data.			☐	☐	☐	☐	☐
12.5.5 Verify that responsibility for monitoring and controlling all access to data is formally assigned.	**Provide the name of the assessor** who attests that responsibilities were verified to be formally assigned for: • Monitoring all access to data • Controlling all access to data	*<Report Findings Here>*					
12.6 Implement a formal security awareness program to make all personnel aware of the cardholder data security policy and procedures.			☐	☐	☐	☐	☐
12.6.a Review the security awareness program to verify it provides awareness to all personnel about the cardholder data security policy and procedures.	**Provide the name of the assessor** who attests that the security awareness program was verified to provide awareness to all personnel about the cardholder data security policy and procedures.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place

12.6.b Examine security awareness program procedures and documentation and perform the following:	**Identify the documented security awareness program procedures and additional documentation** examined to verify that:
	• The security awareness program provides multiple methods of communicating awareness and educating personnel.
	• Personnel attend security awareness training:
	  – Upon hire, and
	  – At least annually
	• Personnel acknowledge, in writing or electronically and at least annually, that they have read and understand the information security policy.
		<Report Findings Here>					

12.6.1 Educate personnel upon hire and at least annually. *Note:* Methods can vary depending on the role of the personnel and their level of access to the cardholder data.			☐	☐	☐	☐	☐
12.6.1.a Verify that the security awareness program provides multiple methods of communicating awareness and educating personnel (for example, posters, letters, memos, web-based training, meetings, and promotions).	**Describe how** the security awareness program provides multiple methods of communicating awareness and educating personnel.	*<Report Findings Here>*					
12.6.1.b Verify that personnel attend security awareness training upon hire and at least annually.	**Describe how** it was observed that all personnel attend security awareness training:						
	• Upon hire	*<Report Findings Here>*					
	• At least annually	*<Report Findings Here>*					
12.6.1.c Interview a sample of personnel to verify they have completed awareness training and are aware of the importance of cardholder data security.	**Identify the sample** of personnel interviewed for this testing procedure..	*<Report Findings Here>*					
	For the interview, **summarize the relevant details** discussed that verify they have completed awareness training and are aware of the importance of cardholder data security.	*<Report Findings Here>*					
12.6.2 Require personnel to acknowledge at least annually that they have read and understood the security policy and procedures.			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
12.6.2 Verify that the security awareness program requires personnel to acknowledge, in writing or electronically, at least annually that they have read and understand the information security policy.	**Describe how** it was observed that, per the security awareness program, all personnel:						
	• Acknowledge that they have read and understand the information security policy (including whether this is in writing or electronic).	*<Report Findings Here>*					
	• Provide an acknowledgement at least annually.	*<Report Findings Here>*					
12.7 Screen potential personnel prior to hire to minimize the risk of attacks from internal sources. (Examples of background checks include previous employment history, criminal record, credit history, and reference checks.) *Note: For those potential personnel to be hired for certain positions such as store cashiers who only have access to one card number at a time when facilitating a transaction, this requirement is a recommendation only.*			☐	☐	☐	☐	☐
12.7 Inquire with Human Resource department management and verify that background checks are conducted (within the constraints of local laws) prior to hire on potential personnel who will have access to cardholder data or the cardholder data environment.	**Identify the Human Resources personnel** interviewed who confirm background checks are conducted (within the constraints of local laws) prior to hire on potential personnel who will have access to cardholder data or the cardholder data environment.	*<Report Findings Here>*					
	Describe how it was observed that background checks are conducted (within the constraints of local laws) prior to hire on potential personnel who will have access to cardholder data or the cardholder data environment.	*<Report Findings Here>*					
12.8 Maintain and implement policies and procedures to manage service providers with whom cardholder data is shared, or that could affect the security of cardholder data, as follows:			☐	☐	☐	☐	☐
12.8 Through observation, review of policies and procedures, and review of supporting documentation, verify that processes are implemented to manage service providers with whom cardholder data is shared, or that could affect the security of cardholder data as follows:	**Identify the documented policies and procedures** reviewed to verify that processes are implemented to manage service providers with whom cardholder data is shared, or that could affect the security of cardholder data, per 12.8.1–12.8.5:	*<Report Findings Here>*					
12.8.1 Maintain a list of service providers including a description of the service provided.			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
12.8.1 Verify that a list of service providers is maintained and includes a list of the services provided.	**Describe how** the documented list of service providers was observed to be maintained (kept up-to-date) and includes a list of the services provided.	*<Report Findings Here>*					
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 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 CDE. *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.*			☐	☐	☐	☐	☐
12.8.2 Observe written agreements and confirm they include an acknowledgement by service providers that they 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.	**Describe how** written agreements for each service provider were observed to include an acknowledgement by service providers that they will maintain all applicable PCI DSS requirements to the extent the service provider handles, has access to, or otherwise stores, processes, or transmits the customer's cardholder data or sensitive authentication data, or manages the customer's cardholder data environment on behalf of a customer.	*<Report Findings Here>*					
12.8.3 Ensure there is an established process for engaging service providers including proper due diligence prior to engagement.			☐	☐	☐	☐	☐
12.8.3 Verify that policies and procedures are documented and implemented including proper due diligence prior to engaging any service provider.	**Identify the policies and procedures** reviewed to verify that processes included proper due diligence prior to engaging any service provider.	*<Report Findings Here>*					
	Describe how it was observed that the above policies and procedures are implemented.	*<Report Findings Here>*					
12.8.4 Maintain a program to monitor service providers' PCI DSS compliance status at least annually.			☐	☐	☐	☐	☐
12.8.4 Verify that the entity maintains a program to monitor its service providers' PCI DSS compliance status at least annually.	**Describe how** it was observed that the entity maintains a program to monitor its service providers' PCI DSS compliance status at least annually.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
12.8.5 Maintain information about which PCI DSS requirements are managed by each service provider, and which are managed by the entity.			☐	☐	☐	☐	☐
12.8.5 Verify the entity maintains information about which PCI DSS requirements are managed by each service provider, and which are managed by the entity.	**Describe how** it was observed that the entity maintains information about which PCI DSS requirements are managed by each service provider, and which are managed by the entity.	*<Report Findings Here>*					
12.9 *Additional requirement for service providers only*: Service providers acknowledge in writing to customers that they are responsible for the security of cardholder data the service provider possesses or otherwise stores, processes, or transmits 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.*			☐	☐	☐	☐	☐
12.9 *Additional testing procedure for service provider assessments only*: Review service provider's policies and procedures and observe templates used for written agreement to confirm the service provider acknowledges in writing to customers that the service provider will maintain all applicable PCI DSS requirements to the extent the service provider possesses or otherwise stores, processes, or transmits cardholder data on behalf of the customer, or to the extent that they could impact the security	**Indicate whether** the assessed entity is a service provider. **(yes/no)** *If "no," mark the remainder of 12.9 as "Not Applicable."* *If "yes":*	*<Report Findings Here>*					
	Identify the service provider's policies and procedures reviewed to verify that the service provider acknowledges in writing to customers that the service provider will maintain all applicable PCI DSS requirements to the extent the service provider possesses or otherwise stores, processes, or transmits cardholder data on behalf of the customer, or to the extent that they could impact the security of the customer's cardholder data environment.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
of the customer's cardholder data environment.	**Describe how** the templates used for written agreement verified that the service provider acknowledges in writing to customers that the service provider will maintain all applicable PCI DSS requirements to the extent the service provider possesses or otherwise stores, processes, or transmits cardholder data on behalf of the customer, or to the extent that they could impact the security of the customer's cardholder data environment.	*<Report Findings Here>*					
12.10 Implement an incident response plan. Be prepared to respond immediately to a system breach.			☐	☐	☐	☐	☐

12.10 Examine the incident response plan and related procedures to verify entity is prepared to respond immediately to a system breach by performing the following:	**Identify the documented incident response plan and related procedures** examined to verify the entity is prepared to respond immediately to a system breach, with defined processes as follows from 12.10.1–12.10.6:
	• Create the incident response plan to be implemented in the event of system breach.
	• Test the plan at least annually.
	• Designate specific personnel to be available on a 24/7 basis to respond to alerts:
	  – 24/7 incident monitoring
	  – 24/7 incident response
	• Provide appropriate training to staff with security breach response responsibilities.
	• Include alerts from security monitoring systems, including but not limited to intrusion-detection, intrusion-prevention, firewalls, and file-integrity monitoring systems.
	• Develop a process to modify and evolve the incident response plan according to lessons learned and to incorporate industry developments.
		<Report Findings Here>					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
12.10.1 Create the incident response plan to be implemented in the event of system breach. Ensure the plan addresses 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. • Specific incident response procedures. • Business recovery and continuity procedures. • Data back-up processes. • Analysis of legal requirements for reporting compromises. • Coverage and responses of all critical system components. • Reference or inclusion of incident response procedures from the payment brands.			☐	☐	☐	☐	☐
12.10.1.a Verify that the incident response plan includes: • Roles, responsibilities, and communication strategies in the event of a compromise including notification of the payment brands, at a minimum. • Specific incident response procedures. • Business recovery and continuity procedures • Data back-up processes • Analysis of legal requirements for reporting compromises (for example, California Bill 1386, which requires notification of affected consumers in the event of an actual or suspected compromise for any business with California residents in their database). • Coverage and responses for all critical system components. • Reference or inclusion of incident response procedures from the payment brands.	**Provide the name of the assessor** who attests that the incident response plan was verified to include: • Roles and responsibilities. • Communication strategies. • Requirement for notification of the payment brands. • Specific incident response procedures. • Business recovery and continuity procedures. • Data back-up processes. • Analysis of legal requirements for reporting compromises. • Coverage for all critical system components. • Responses for all critical system components. • Reference or inclusion of incident response procedures from the payment brands.	*<Report Findings Here>*					
12.10.1.b Interview personnel and review documentation from a sample of previously reported incidents or alerts to	**Identify the responsible personnel** interviewed who confirm that the documented incident response plan and procedures are followed.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
verify that the documented incident response plan and procedures were followed.	**Identify the sample** of previously reported incidents or alerts selected for this testing procedure.	*<Report Findings Here>*					
	For each item in the sample, **describe how** the documented incident response plan and procedures were observed to be followed.	*<Report Findings Here>*					
12.10.2 Review and test the plan at least annually, including all elements listed in Requirement 12.10.1.			☐	☐	☐	☐	☐
12.10.2 Interview personnel and review documentation from testing to verify that the plan is tested at least annually and that testing includes all elements listed in Requirement 12.10.1.	**Identify the responsible personnel** interviewed who confirm that the incident response plan is tested at least annually and that testing includes all elements listed in Requirement 12.10.1.	*<Report Findings Here>*					
	Identify documentation reviewed from testing to verify that the incident response plan is tested at least annually and that testing includes all elements listed in Requirement 12.10.1.	*<Report Findings Here>*					
12.10.3 Designate specific personnel to be available on a 24/7 basis to respond to alerts.			☐	☐	☐	☐	☐
12.10.3 Verify through observation, review of policies, and interviews of responsible personnel that designated personnel are available for 24/7 incident response and monitoring coverage for any evidence of unauthorized activity, detection of unauthorized wireless access points, critical IDS alerts, and/or reports of unauthorized critical system or content file changes.	**Identify the document** requiring 24/7 incident response and monitoring coverage for: • Any evidence of unauthorized activity. • Detection of unauthorized wireless access points. • Critical IDS alerts. • Reports of unauthorized critical system or content file changes.	*<Report Findings Here>*					
	Identify the responsible personnel interviewed who confirm 24/7 incident response and monitoring coverage for: • Any evidence of unauthorized activity. • Detection of unauthorized wireless access points. • Critical IDS alerts. • Reports of unauthorized critical system or content file changes.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
	Describe how it was observed that designated personnel are available for 24/7 incident response and monitoring coverage for: • Any evidence of unauthorized activity. • Detection of unauthorized wireless access points. • Critical IDS alerts. • Reports of unauthorized critical system or content file changes.	*<Report Findings Here>*					
12.10.4 Provide appropriate training to staff with security breach response responsibilities.			☐	☐	☐	☐	☐
12.10.4 Verify through observation, review of policies, and interviews of responsible personnel that staff with responsibilities for security breach response are periodically trained.	**Identify the responsible personnel** interviewed who confirm that staff with responsibilities for security breach response are periodically trained.	*<Report Findings Here>*					
	Identify the documented policy reviewed to verify that staff with responsibilities for security breach response are periodically trained.	*<Report Findings Here>*					
	Describe how it was observed that staff with responsibilities for security breach response are periodically trained.	*<Report Findings Here>*					
12.10.5 Include alerts from security monitoring systems, including but not limited to intrusion-detection, intrusion-prevention, firewalls, and file-integrity monitoring systems.			☐	☐	☐	☐	☐
12.10.5 Verify through observation and review of processes that monitoring and responding to alerts from security monitoring systems are covered in the Incident Response Plan.	**Describe how** processes were reviewed to verify that *monitoring* alerts from security monitoring systems are covered in the Incident Response Plan.	*<Report Findings Here>*					
	Describe how processes were reviewed to verify that *responding to* alerts from security monitoring systems are covered in the Incident Response Plan.	*<Report Findings Here>*					
12.10.6 Develop a process to modify and evolve the incident response plan according to lessons learned and to incorporate industry developments.			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
12.10.6 Verify through observation, review of policies, and interviews of responsible personnel that there is a process to modify and evolve the incident response plan according to lessons learned and to incorporate industry developments.	**Identify the documented policy** reviewed to verify that processes are defined to modify and evolve the incident response plan: • According to lessons learned. • To incorporate industry developments.	*<Report Findings Here>*					
	Identify the responsible personnel interviewed who confirm that processes are implemented to modify and evolve the incident response plan: • According to lessons learned. • To incorporate industry developments.	*<Report Findings Here>*					
	Describe how it was observed that processes are implemented to modify and evolve the incident response plan:						
	• According to lessons learned.	*<Report Findings Here>*					
	• To incorporate industry developments.	*<Report Findings Here>*					
12.11 Additional requirement for service providers only: Perform reviews at least quarterly to confirm personnel are following security policies and operational procedures. Reviews must cover the following processes: • Daily log reviews • Firewall rule-set reviews • Applying configuration standards to new systems • Responding to security alerts • Change management processes			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
12.11.a Examine policies and procedures to verify that processes are defined for reviewing and confirming that personnel are following security policies and operational procedures, and that reviews cover: • Daily log reviews • Firewall rule-set reviews • Applying configuration standards to new systems • Responding to security alerts • Change management processes	**Identify the policies and procedures** examined to verify that processes are defined for reviewing and confirming that personnel are following security policies and operational procedures, and that reviews cover: • Daily log reviews • Firewall rule-set reviews • Applying configuration standards to new systems • Responding to security alerts • Change management processes	*<Report Findings Here>*					
12.11.b Interview responsible personnel and examine records of reviews to verify that reviews are performed at least quarterly	**Identify the document(s) related to reviews** examined to verify that reviews are performed at least quarterly.	*<Report Findings Here>*					
	Identify the responsible personnel interviewed who confirm that reviews are performed at least quarterly	*<Report Findings Here>*					
12.11.1 *Additional requirement for service providers only*: Maintain documentation of quarterly review process to include: • Documenting results of the reviews • Review and sign off of results by personnel assigned responsibility for the PCI DSS compliance program			☐	☐	☐	☐	☐
12.11.1.a Examine documentation from the quarterly reviews to verify they include: • Documenting results of the reviews. • Review and sign off of results by personnel assigned responsibility for the PCI DSS compliance program.	**Identify the document(s) related to quarterly reviews** to verify they include: • Documenting results of the reviews. • Review and sign off of results by personnel assigned responsibility for the PCI DSS compliance program.	*<Report Findings Here>*					

Appendix A: Additional PCI DSS Requirements

This appendix contains additional PCI DSS requirements for different types of entities. The sections within this Appendix include:

- Appendix A1   Additional PCI DSS Requirements for Shared Hosting Providers

- Appendix A2:   Additional PCI DSS Requirements for Entities using SSL/early TLS for Card-Present POS POI terminal connections

- Appendix A3:   Designated Entities Supplemental Validation

Guidance and applicability information is provided within each section.

Appendix A1: Additional PCI DSS Requirements for Shared Hosting Providers

Note: If the entity is not a shared hosting provider (and the answer at 2.6 was "no," indicate the below as "Not Applicable." Otherwise, complete the below.

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
Indicate whether the assessed entity is a shared hosting provider (indicated at Requirement 2.6). **(yes/no)** If "no," mark the below as "Not Applicable" (no further explanation required) If "yes," **complete the following:**		*<Report Findings Here>*					
A1 Protect each entity's (that is, merchant, service provider, or other entity) hosted environment and data, per A1.1 through A1.4: A hosting provider must fulfill these requirements as well as all other relevant sections of the PCI DSS. *Note: Even though a hosting provider may meet these requirements, the compliance of the entity that uses the hosting provider is not guaranteed. Each entity must comply with the PCI DSS and validate compliance as applicable.*							
A1 Specifically for a PCI DSS assessment of a shared hosting provider, to verify that shared hosting providers protect entities' (merchants and service providers) hosted environment and data, select a sample of servers (Microsoft Windows and Unix/Linux) across a representative sample of hosted merchants and service providers, and perform A1.1 through A1.4 below:							
A1.1 Ensure that each entity only runs processes that have access to that entity's cardholder data environment.			☐	☐	☐	☐	☐
A1.1 If a shared hosting provider allows entities (for example, merchants or service providers) to run their own applications, verify these application processes run using the unique ID of the entity. For example: • No entity on the system can use a shared web server user ID.	**Indicate whether** the hosting provider allows hosted entities to run their own applications. **(yes/no)**	*<Report Findings Here>*					
	If "no":						
	Describe how it was observed that hosted entities are not able to run their own applications.						
	<Report Findings Here>						
	If "yes":						
	Identify the sample of servers selected for this testing procedure.	*<Report Findings Here>*					

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
	Identify the sample of hosted merchants and service providers (hosted entities) selected for this testing procedure.	*<Report Findings Here>*					
• All CGI scripts used by an entity must be created and run as the entity's unique user ID.	*For each item in the sample,* **describe how** the system configurations verified that all hosted entities' application processes are run using the unique ID of that entity.						
	<Report Findings Here>						
	Describe how the hosted entities' application processes were observed to be running using the unique ID of the entity.						
	<Report Findings Here>						
A1.2 Restrict each entity's access and privileges to its own cardholder data environment only.			☐	☐	☐	☐	☐
A1.2.a Verify the user ID of any application process is not a privileged user (root/admin).	*For each item in the sample of servers and hosted entities from A1.1, perform the following:*						
	Describe how the system configurations verified that user IDs for hosted entities' application processes are not privileged users.						
	<Report Findings Here>						
	Describe how running application process IDs were observed to verify that the process IDs are not privileged users.						
	<Report Findings Here>						
A1.2.b Verify each entity (merchant, service provider) has read, write, or execute permissions only for files and directories it owns or for necessary system files (restricted via file system permissions, access control lists, chroot, jailshell, etc.) *Important: An entity's files may not be shared by group.*	*For each item in the sample of servers and hosted entities from A1.1,* **describe how** the system configuration settings verified:						
	– Read permissions are only assigned for the files and directories the hosted entity owns, or for necessary systems files.						
	<Report Findings Here>						
	– Write permissions are only assigned for the files and directories the hosted entity owns, or for necessary systems files.						
	<Report Findings Here>						
	– Access permissions are only assigned for the files and directories the hosted entity owns, or for necessary systems files.						
	<Report Findings Here>						
A1.2.c Verify that an entity's users do not have write access to shared system binaries.	*For each item in the sample of servers and hosted entities from A1.1,* **describe how** the system configuration settings verified that an entity's users do not have write access to shared system binaries.						
	<Report Findings Here>						
A1.2.d Verify that viewing of log entries is restricted to the owning entity.	*For each item in the sample of servers and hosted entities from A1.1,* **describe how** the system configuration settings verified that viewing of log entries is restricted to the owning entity.						

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
	<Report Findings Here>						
A1.2.e To ensure each entity cannot monopolize server resources to exploit vulnerabilities (for example, error, race, and restart conditions resulting in, for example, buffer overflows), verify restrictions are in place for the use of these system resources: • Disk space • Bandwidth • Memory • CPU	*For each item in the sample of servers and hosted entities from A1.1,* **describe how** the system configuration settings verified restrictions are in place for the use of:						
	• Disk space						
	<Report Findings Here>						
	• Bandwidth						
	<Report Findings Here>						
	• Memory						
	<Report Findings Here>						
	• CPU						
	<Report Findings Here>						
A1.3 Ensure logging and audit trails are enabled and unique to each entity's cardholder data environment and consistent with PCI DSS Requirement 10.			☐	☐	☐	☐	☐
A1.3 Verify the shared hosting provider has enabled logging as follows, for each merchant and service provider environment: • Logs are enabled for common third-party applications. • Logs are active by default. • Logs are available for review by the owning entity. • Log locations are clearly communicated to the owning entity.	*For each item in the sample of servers and hosted entities from A1.1,* **describe how** processes were observed to verify the following:						
	• Logs are enabled for common third-party applications.						
	<Report Findings Here>						
	• Logs are active by default.						
	<Report Findings Here>						
	• Logs are available for review by the owning entity.						
	<Report Findings Here>						
	• Log locations are clearly communicated to the owning entity.						
	<Report Findings Here>						

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
A1.4 Enable processes to provide for timely forensic investigation in the event of a compromise to any hosted merchant or service provider.			☐	☐	☐	☐	☐
A1.4 Verify the shared hosting provider has written policies that provide for a timely forensics investigation of related servers in the event of a compromise.	**Identify the document** examined to verify that written policies provide for a timely forensics investigation of related servers in the event of a compromise.	*<Report Findings Here>*					

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

Entities using SSL and early TLS for POS POI terminal connections must work toward upgrading to a strong cryptographic protocol as soon as possible. Additionally, SSL and/or early TLS must not be introduced into environments where those protocols don't already exist. At the time of publication, the known vulnerabilities are difficult to exploit in POS POI payment terminals. However, new vulnerabilities could emerge at any time, and it is up to the organization to remain up-to-date with vulnerability trends and determine whether or not they are susceptible to any known exploits.

The PCI DSS requirements directly affected are:

Requirement 2.2.3 Implement additional security features for any required services, protocols, or daemons that are considered to be insecure.

Requirement 2.3 Encrypt all non-console administrative access using strong cryptography.

Requirement 4.1 Use strong cryptography and security protocols to safeguard sensitive cardholder data during transmission over open, public networks.

SSL and early TLS must not be used as a security control to meet these requirements, except in the case of POS POI terminal connections as detailed in this appendix. To support entities working to migrate away from SSL/early TLS on POS POI terminals, the following provisions are included:

- New POS POI terminal implementations must not use SSL or early TLS as a security control
- All POS POI terminal service providers must provide a secure service offering**.**
- Service providers supporting existing POS POI terminal implementations that use SSL and/or early TLS must have a formal Risk Mitigation and Migration Plan in place.
- POS POI terminals in card-present environments that can be verified as not being susceptible to any known exploits for SSL and early TLS, **and the SSL/TLS termination points to which they connect,** may continue using SSL/early TLS as a security control.

This Appendix only applies to entities using SSL/early TLS as a security control to protect POS POI terminals, including service providers who provide connections into POS POI terminals.

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
Indicate whether the assessed entity is using SSL / early TLS for POS POI terminal connections. **(yes/no)** If "no," mark the below as "Not Applicable" (no further explanation required) If "yes," **complete the following (as applicable):**		*<Report Findings Here>*					
A2.1 Where POS POI terminals (at the merchant or payment acceptance location) use SSL and/or early TLS, the entity must confirm the devices are not susceptible to any known exploits for those protocols. *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.*			☐	☐	☐	☐	☐
A2.1 *For POS POI terminals using SSL and/or early TLS,* confirm the entity has documentation (for example, vendor documentation, system/network configuration details, etc.) that verifies the devices are not susceptible to any known exploits for SSL/early TLS.	**Identify the documentation** examined to verify that the POS POI terminals using SSL and/or early TLS are **not** susceptible to any known exploits for SSL/early TLS.	*<Report Findings Here>*					
A2.2 *Requirement for Service Providers Only:* All service providers with existing connection points to POS POI terminals referred to in A2.1 that use SSL and/or early TLS must have a formal Risk Mitigation and Migration Plan in place.			☐	☐	☐	☐	☐

PCI DSS Requirements and Testing Procedures	Reporting Instruction	Reporting Details: Assessor's Response	Summary of Assessment Findings (check one)				
			In Place	In Place w/ CCW	N/A	Not Tested	Not in Place
A2.2 Review the documented Risk Mitigation and Migration Plan to verify it includes: • Description of usage, including what data is being transmitted, types and number of systems that use and/or support SSL/early TLS, type of environment; • Risk-assessment results and risk-reduction controls in place; • Description of processes to monitor for new vulnerabilities associated with SSL/early TLS; • Description of change control processes that are implemented to ensure SSL/early TLS is not implemented into new environments; • Overview of migration project plan to replace SSL/early TLS at a future date.	**Identify the documented Risk Mitigation and Migration Plan** reviewed to verify it includes: • Description of usage, including what data is being transmitted, types and number of systems that use and/or support SSL/early TLS, type of environment; • Risk-assessment results and risk-reduction controls in place; • Description of processes to monitor for new vulnerabilities associated with SSL/early TLS; • Description of change control processes that are implemented to ensure SSL/early TLS is not implemented into new environments; • Overview of migration project plan to replace SSL/early TLS at a future date.	*<Report Findings Here>*					
A2.3 *Requirement for Service Providers Only:* All service providers must provide a secure service offering.			☐	☐	☐	☐	☐
A2.3 Examine system configurations and supporting documentation to verify the service provider offers a secure protocol option for their service.	**Identify the supporting documentation** reviewed to verify the service provider offers a secure protocol option for their service	*<Report Findings Here>*					
	Identify the sample of system components examined for this testing procedure.	*<Report Findings Here>*					
	For each item in the sample, **describe how** system configurations verify that the service provider offers a secure protocol option for their service.	*<Report Findings Here>*					

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 that are required to validate to these requirements should refer to the following documents for reporting:

- *Reporting Template for use with the PCI DSS Designated Entities Supplemental Validation*

- *Supplemental Attestation of Compliance for Onsite Assessments – Designated Entities*

These documents are available in the PCI SSC Document Library.

> **Note that an entity is ONLY required to undergo an assessment according to this Appendix if instructed to do so by an acquirer or a payment brand.**

Appendix B: Compensating Controls

Compensating controls may be considered for most PCI DSS requirements when an entity cannot meet a requirement explicitly as stated, due to legitimate technical or documented business constraints, but has sufficiently mitigated the risk associated with the requirement through implementation of other, or compensating, controls.

Compensating controls must satisfy the following criteria:

1. Meet the intent and rigor of the original PCI DSS requirement.

2. Provide a similar level of defense as the original PCI DSS requirement, such that the compensating control sufficiently offsets the risk that the original PCI DSS requirement was designed to defend against. (See *Guidance Column* for the intent of each PCI DSS requirement.)

3. Be "above and beyond" other PCI DSS requirements. (Simply being in compliance with other PCI DSS requirements is not a compensating control.)

    When evaluating "above and beyond" for compensating controls, consider the following:

    Note: The items at a) through c) below are intended as examples only. All compensating controls must be reviewed and validated for sufficiency by the assessor who conducts the PCI DSS review. The effectiveness of a compensating control is dependent on the specifics of the environment in which the control is implemented, the surrounding security controls, and the configuration of the control. Companies should be aware that a particular compensating control will not be effective in all environments.

    a) Existing PCI DSS requirements CANNOT be considered as compensating controls if they are already required for the item under review. For example, passwords for non-console administrative access must be sent encrypted to mitigate the risk of intercepting clear-text administrative passwords. An entity cannot use other PCI DSS password requirements (intruder lockout, complex passwords, etc.) to compensate for lack of encrypted passwords, since those other password requirements do not mitigate the risk of interception of clear-text passwords. Also, the other password controls are already PCI DSS requirements for the item under review (passwords).

    b) Existing PCI DSS requirements MAY be considered as compensating controls if they are required for another area, but are not required for the item under review.

    c) Existing PCI DSS requirements may be combined with new controls to become a compensating control. For example, if a company is unable to render cardholder data unreadable per Requirement 3.4 (for example, by encryption), a compensating control could consist of a device or combination of devices, applications, and controls that address all of the following: (1) internal network segmentation; (2) IP address or MAC address filtering; and (3) one-time passwords.

4. Be commensurate with the additional risk imposed by not adhering to the PCI DSS requirement.

The assessor is required to thoroughly evaluate compensating controls during each annual PCI DSS assessment to validate that each compensating control adequately addresses the risk the original PCI DSS requirement was designed to address, per items 1-4 above. To maintain compliance, processes and controls must be in place to ensure compensating controls remain effective after the assessment is complete.

Appendix C: Compensating Controls Worksheet

Use this worksheet to define compensating controls for any requirement where compensating controls are used to meet a PCI DSS requirement. Note that compensating controls should also be documented in the Report on Compliance in the corresponding PCI DSS requirement section.

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.*

Requirement Number and Definition:

	Information Required	Explanation
1. Constraints	List constraints precluding compliance with the original requirement.	
2. Objective	Define the objective of the original control; identify the objective met by the compensating control.	
3. Identified Risk	Identify any additional risk posed by the lack of the original control.	
4. 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.	
5. Validation of Compensating Controls	Define how the compensating controls were validated and tested.	
6. Maintenance	Define process and controls in place to maintain compensating controls.	

Compensating Controls Worksheet – Completed Example

Use this worksheet to define compensating controls for any requirement noted as being "in place" via compensating controls.

Requirement Number: *8.1.1 – Are all users identified with a unique user ID before allowing them to access system components or cardholder data?*

		Information Required	Explanation
1.	**Constraints**	List constraints precluding compliance with the original requirement.	*Company XYZ employs stand-alone Unix Servers without LDAP. As such, they each require a "root" login. It is not possible for Company XYZ to manage the "root" login nor is it feasible to log all "root" activity by each user.*
2.	**Objective**	Define the objective of the original control; identify the objective met by the compensating control.	*The objective of requiring unique logins is twofold. First, it is not considered acceptable from a security perspective to share login credentials. Secondly, having shared logins makes it impossible to state definitively that a person is responsible for a particular action.*
3.	**Identified Risk**	Identify any additional risk posed by the lack of the original control.	*Additional risk is introduced to the access control system by not ensuring all users have a unique ID and are able to be tracked.*
4.	**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.	*Company XYZ is going to require all users to log into the servers using their regular user accounts, and then use the "sudo" command to run any administrative commands. This allows use of the "root" account privileges to run pre-defined commands that are recorded by sudo in the security log. In this way, each user's actions can be traced to an individual user account, without the "root" password being shared with the users.*
5.	**Validation of Compensating Controls**	Define how the compensating controls were validated and tested.	*Company XYZ demonstrates to assessor that the sudo command is configured properly using a "sudoers" file, that only pre-defined commands can be run by specified users, and that all activities performed by those individuals using sudo are logged to identify the individual performing actions using "root" privileges.*
6.	**Maintenance**	Define process and controls in place to maintain compensating controls.	*Company XYZ documents processes and procedures to ensure sudo configurations are not changed, altered, or removed to allow individual users to execute root commands without being individually identified, tracked and logged.*

Appendix D: Segmentation and Sampling of Business Facilities/System Components

Segmentation

To use network segmentation to reduce PCI DSS scope, an entity must isolate systems that store, process, or transmit cardholder data from the rest of the network.

Determine segmentation → Can scope be reduced due to network segmentation?

— YES → Did assessor validate effectiveness of segmentation?

— YES → Assessor documents in report that network segmentation is in place & effective

Assessors must document the segmentation used and how the effectiveness of the segmentation was validated.

Can scope be reduced due to network segmentation? — NO → Entire network is in scope for PCI DSS review

Did assessor validate effectiveness of segmentation? — NO → Entire network is in scope for PCI DSS review

Assessor documents in report that network segmentation is in place & effective → Scope can be limited to isolated area that stores, processes, and transmits CHD

Entire network is in scope for PCI DSS review → A

Scope can be limited to isolated area that stores, processes, and transmits CHD → A

Sampling of Business Facilities/System Components

A → Assessor understands entity's use of standardized PCI DSS processes & controls across business facilities/system components

→ Assessor understands total population of business facilities

→ Assessor understands total population of system components

→ Are centralized standards followed?

— NO → Are decentralized standards followed?

Are centralized standards followed? — YES → Assessor independently selects a smaller sample representative of the overall population

Are decentralized standards followed? — YES → Assessor independently selects a larger sample representative of each set of decentralized standards

Are decentralized standards followed? — NO → Assessor independently selects the largest sample, representative of ALL types of facilities and system components in the environment

Assessor independently selects a smaller sample representative of the overall population → Assessor verifies standard controls are implemented as expected

Assessor verifies standard controls are implemented as expected → In ROC, assessor documents results of tests & justifies:
- Business facility sample
- System component sample

Assessors must document the rationale behind the sampling technique and sample size, document and validate the standardized processes and controls used to determine sample size, and explain how the sample is appropriate and representative of the overall population.