



Payment Card Industry (PCI) **Point-to-Point Encryption**

**Template for Report on Validation
for use with P2PE v2.0 (Revision 1.1)
for P2PE Solution**

Revision 1.1

June 2017

Document Changes

Date	Use with Version	Template Revision	Description
June 2017	For use with P2PE v2.0, Revision 1.1	Revision 1.1	Additional columns added at Table 6.1 – Key Matrix. List of all cryptographic keys (by type) used in P2PE Solution
November 2015	For use with P2PE v2.0, Revision1.1	Revision1.0	To introduce the template for submitting P2PE Reports on Validation for P2PE Solutions assessed against the P2PE v2 Standard. <i>This document serves as both the Reporting Template and Reporting Instructions document.</i>

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Introduction to the P-ROV Template for P2PE Solutions

This document, the *PCI Point-to-Point Encryption: Template for Report on Validation for use with P2PE v2.0 (Rev 1.1), Revision 1.1 for P2PE Solution* (“Solution P-ROV Reporting Template”), is the mandatory template for completing a P2PE Report on Validation (P-ROV) for P2PE Solution assessments against the *P2PE: Solution Requirements and Testing Procedures, v2.0 (Rev 1.1)* (“P2PE v2 Standard”). It is not intended for use with Merchant-Managed Solutions. This Reporting Template provides reporting instructions and the template form for QSA (P2PE) assessors to provide a more consistent level of reporting among assessors.

Use of this Reporting Template is mandatory for all P2PE v2 submissions for P2PE Solutions.

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 but limited to the title page.

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 they complete reporting, but also provide context for for the report recipient(s). Addition of text or sections is applicable within reason, as noted above.

A P2PE 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 P-ROV 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 P-ROV provides a comprehensive **summary of testing activities performed and information collected** during the assessment against the P2PE v2 Standard. The information contained in a P-ROV must provide enough detail and coverage to verify that the P2PE submission is compliant with all applicable P2PE requirements.

P-ROV Sections

The P-ROV includes the following sections that must be completed in their entirety:

- Section 1: Contact Information and Report Date
- Section 2: Summary Overview
- Section 3: Details and Scope of P2PE Assessment
- Section 4: Findings and Observations

This Reporting Template includes tables with Reporting Instructions built-in. Details provided should focus on concise quality of detail, rather than lengthy, repeated verbiage.

P-ROV Summary of Findings

This version of the P2PE Reporting Template reflects an on-going effort to simplify assessor summary reporting. All summary findings for “In Place,” “Not in Place,” and “Not Applicable” are found at the beginning of each Domain and are only addressed at that high-level. A summary of all domain findings is also at “2.9 Summary of P2PE Compliance Status.”

The following table is a representation when considering which selection to make. Remember, assessors must select only one response at the sub-requirement level, and the selected response must be consistent with reporting within the remainder of the P-ROV and other required documents, such as the relevant P2PE Attestation of Validation (P-AOV).

RESPONSE	WHEN TO USE THIS RESPONSE:
In Place	The expected testing has been performed, and all elements of the requirement have been met as stated. This may be a mix of In Place and Not Applicable responses, but no Not in Place response. Requirements fulfilled by other P2PE Components or Third Parties should be In Place, unless the requirement does not apply.
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.
N/A (Not Applicable)	The requirement does not apply to the P2PE Product. All Not Applicable responses require reporting on testing performed and must explain how it was determined that the requirement does not apply.

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. Mac users may instead need to use the space bar to add the mark

P-ROV Reporting Details

The reporting instructions in the Reporting Template are clear as to the intention of the response required. There is no need to repeat the testing procedure, the reporting instruction, or such within each assessor response. As noted earlier, responses should be specific, but simple. Details provided should focus on concise quality of detail, rather than lengthy, repeated verbiage.

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

- **“Identify the P2PE Assessor who confirms...”**

Indicates only an affirmative response where further reporting is deemed unnecessary by PCI SSC. The P2PE Assessor’s name or a Not Applicable response are the two appropriate responses here. A Not Applicable response will require brief reporting to explain how this was confirmed via testing.

- **Document name or interviewee reference**

At 3.7 Documentation Reviewed and 3.8 Individuals Interviewed, there is a space for a reference number and ***it is the P2PE Assessor’s choice*** to use the document name/interviewee job title or the reference number in responses. A listing is sufficient here, no further detail required.

- **Sample reviewed**

Brief list is expected or sample identifier. Again, where applicable, it is the P2PE Assessor’s choice to list out each sample within reporting or to utilize sample identifiers from the sampling summary table.

- **Brief description/short answer – “Describe how...”**

These are the only reporting instructions that will stretch across half of the table; the above are all a quarter-table’s width to serve as a visual indicator of detail expected in response. These responses must be a narrative response that provides explanation as to the observation—both a summary of what was witnessed and how that verified the criteria of the testing procedure.

Do's and Don'ts: Reporting Expectations

DO:	DON'T:
<ul style="list-style-type: none"> ▪ Use the corresponding Reporting Template for v2.0 of the P2PE Standard. ▪ Complete all sections in the order specified, with concise detail. ▪ Read and understand the intent of each Requirement and Testing Procedure. ▪ Provide a response for every Testing Procedure, even if N/A. ▪ Provide sufficient detail and information to demonstrate a finding of “in place” or “not applicable.” ▪ Describe how a Requirement was verified as the Reporting Instruction directs, not just that it was verified. ▪ Ensure all parts of the Testing Procedure are addressed. ▪ Ensure the response covers all applicable application and/or system components. ▪ Perform an internal quality assurance review of the P-ROV for clarity, accuracy, and quality. ▪ Provide useful, meaningful diagrams, as directed. 	<ul style="list-style-type: none"> ▪ Don't report items in the “In Place” column unless they have been verified as being “in place.” ▪ Don't include forward-looking statements or project plans in responses. ▪ Don't simply repeat or echo the Testing Procedure in the response. ▪ Don't copy responses from one Testing Procedure to another. ▪ Don't copy responses from previous assessments. ▪ Don't include information irrelevant to the assessment.

P-ROV Solution Template for P2PE v2 Standard (Rev 1.1)

This template is to be used for creating a P2PE Report on Validation for submission to PCI SSC for P2PE Solutions assessed against P2PE v2. Content and format for this P-ROV is defined as follows:

1. Contact Information and Report Date

1.1 Contact Information				
<i>P2PE Solution Provider contact information</i>				
Company name:		Company URL:		
Company contact name:		Contact e-mail address:		
Contact phone number:		Company address:		
<i>P2PE Assessor Company contact information</i>				
Company name:		Assessor Company Credentials:	<input type="checkbox"/> QSA (P2PE)	<input type="checkbox"/> PA-QSA (P2PE)
Assessor name:		Assessor Credentials:	<input type="checkbox"/> QSA (P2PE)	<input type="checkbox"/> PA-QSA (P2PE)
Assessor phone number:		Assessor e-mail address:		
Confirm that internal QA was fully performed on the entire P2PE submission, per requirements in relevant program documentation.		<input type="checkbox"/> Yes <input type="checkbox"/> No (if no, this is not in accordance with PCI Program requirements)		
1.2 Date and timeframe of assessment				
Date of Report:		Timeframe of assessment:		

1.3 P2PE Version

Version of the P2PE Standard used for the assessment (should be 2.0):

2. Summary Overview

2.1 P2PE Solution Details

P2PE solution name:		Is the solution already listed on the PCI SSC List of Validated P2PE Solutions?	<input type="checkbox"/> Yes (if yes, provide ref #)	<input type="checkbox"/> No
			PCI SSC Ref #	or <input type="checkbox"/> N/A
Description of P2PE solution provider (e.g., payment gateway, acquirer, multi-acquirer payment processor, etc.):				
Description of the typical merchant that uses this solution (Include specific industries or channels the solution is intended for):				

2.2 Listed P2PE Component Providers used in the P2PE Solution

Type of Component (select one per row)				P2PE Component Provider Name	P2PE Component Name	PCI SSC Reference #
KIF	CA/RA	Encryption Management	Decryption Management			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

2.3 Listed P2PE Applications used in the P2PE Solution

Application Vendor Name:	Application Name:	Application Version #:	PCI SSC Reference #

2.4 Other Third-Party Service Provider entities involved in P2PE Solution

This could include KIFs, CA/RAs, Encryption Management Services and Decryption Management Services who have opted NOT to list with PCI SSC as a P2PE Component and therefore must be assessed fully for each P2PE solution the service is used in. This could also include other third-party service providers in use as applicable, including authorized Integrator/Resellers and such.

“Other details” is to be used as needed. For example, if there is a third-party service provider providing decryption services but it not a P2PE Component at 2.2, use “Other details” to address data such as P2PE endpoint system identifier (e.g., Host System and HSM). Mark as “n/a” if no other details are needed.

Entity Name:	Role/Function:	Entity Location(s):	Other Details, if needed:

2.5 PTS Devices Supported

List of all POI device types supported and tested as part of Solution's P2PE Assessment.

PTS Approval #:	Make/ Manufacturer:	Model Name/ Number:	Hardware #:	Firmware #(s):	Any additional Applications on POI (add rows as needed to report all applications)		
					Application Name:	Version #	CHD Access?
							<input type="checkbox"/> Yes <input type="checkbox"/> No
							<input type="checkbox"/> Yes <input type="checkbox"/> No
							<input type="checkbox"/> Yes <input type="checkbox"/> No
							<input type="checkbox"/> Yes <input type="checkbox"/> No

Note: An Application P-ROV must be submitted and accepted by PCI SSC for all applications with access to clear-text account data and will be identified by the PCI SSC listing number at Section 2.3 above.

Functionality provided (for all POI device types supported)

The columns below represent review of the PTS Listing approval details (to be reported under "PTS Listing") as well as the observed device configuration (to be reported under "P2PE"). This table will match what functionality was listed for PTS against what is observed as being utilized for P2PE in order to identify and resolve any discrepancies. SRED is not noted below, as it is addressed at 1A-1.1.

Model Name/ Number:	OP		ICCR		MSR		Contactless	
	PTS Listing	P2PE						
	<input type="checkbox"/> Y <input type="checkbox"/> N							
	<input type="checkbox"/> Y <input type="checkbox"/> N							
	<input type="checkbox"/> Y <input type="checkbox"/> N							

Note: If there is a different response for PTS Listing compared to P2PE Functionality for account-data capture interfaces provided with the POI device, this will need to be addressed (including at applicable Domain 1 testing procedures) to ensure such functionality is specifically disabled or configured to prevent their use for P2PE transactions.

External communication methods (for all POI device types supported)

Report in each column whether the device configurations for each of the PTS device types supported was observed to support the following external communication methods.

Model Name/ Number:	Bluetooth	Ethernet	Serial	USB
	<input type="checkbox"/> Y <input type="checkbox"/> N			
	<input type="checkbox"/> Y <input type="checkbox"/> N			

2.6 All other Secure Cryptographic Devices (SCDs)

List of all other SCD types used in the P2PE Solution

This includes SCDs used to generate or load cryptographic keys, encrypt keys, or sign applications to be loaded onto POI devices, as well as HSMs used in the P2PE decryption environment. Examples include HSMs, key-injection/loading devices (KLDs) and other devices that generate or load keys or sign applications and/or whitelists.

Identifier Type	PTS Approval or FIPS #:	Manufacturer	Model Name/ Number:	Model Name/ Number:	Location:	# of devices per location:	Purpose:

Additional details for all HSMs used in the P2PE Solution

PTS Approval or FIPS #:	Model Name/ Number:	Serial Numbers or other identifiers:	Hardware #(s):	Firmware #(s):	Application #(s):	Approved Key Function(s):

2.7 Multi-Acquirer and Multi-Solution Implementations

Do multiple acquirers or multiple solution providers manage one or more P2PE solutions on the same POI device?

Yes

No

If 'no,' mark the remainder of Section 2.6 as 'n/a'

Describe how management of the multi-acquirer or multi-provider solutions is divided between entities:

Complete the following where multiple acquirers or multiple solution providers manage one or more P2PE solutions on the same POI device:

POI name/ identifier	Identify other P2PE solutions on the POI device	Is the other solution already listed, currently being assessed in a separate P2PE assessment, or included with this P2PE assessment?	If solution is already listed, provide PCI SSC listing number	If solution being assessed separately, identify P2PE assessor company performing assessment (if known)

2.8 Summary of P2PE Compliance Status

P2PE Domain	Compliant	Comments (optional):
Domain 1 – Encryption Device and Application Management	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Domain 2 – Application Security		N/A
Domain 3 – P2PE Solution Management	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Domain 4 – Merchant-managed Solutions		N/A
Domain 5 – Decryption Environment	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Domain 6 – P2PE Cryptographic Key Operations and Device Management	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Domain 6 – Annex A1: Symmetric-Key Distribution using Asymmetric Techniques	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Domain 6 – Annex A2: Certification and Registration Authority Operations	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Domain 6 – Annex B: Key-Injection Facilities	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

3. Details and Scope of P2PE Assessment

3.1 Scoping Details
Describe how the P2PE assessor validated the accuracy of the P2PE scope for the assessment, including:
<ul style="list-style-type: none"> Describe the methods or processes used to identify all elements in scope of the P2PE solution assessment:
<ul style="list-style-type: none"> Describe how the P2PE assessor confirmed that the scope of the assessment is accurate and covers all components and facilities for the P2PE solution:

3.2 Segmentation at Solution Provider
Identify the solution provider environment(s) that are addressed in the solution provider's PCI DSS assessment (e.g., all solution provider environments, decryption environment only, decryption environment and some other environments, etc.):
<i>If the solution provider's PCI DSS compliance does not cover all solution provider environments:</i>
Describe how the solution provider has implemented network segmentation to isolate P2PE decryption environments from any non-PCI DSS compliant environments:
Describe how the P2PE assessor validated the effectiveness of the segmentation:

3.3 Solution Network Diagram

Provide one or more **high-level** network diagrams to illustrate the functioning of the P2PE solution, including:

- Locations of critical facilities, including the solution provider's decryption environment, key-injection and loading facilities, etc.
- Location of critical components within the P2PE decryption environment, such as the Host System, HSMs and other SCDs, cryptographic key stores, etc., as applicable
- Location of systems performing key management functions
- Connections into and out of the decryption environment
- Other necessary components, as applicable to the particular solution



<Insert P2PE Solution network diagram(s)>

3.4 Overview of P2PE solution data flow

Provide a **high-level** data flow diagram of the solution that illustrates:

- Flows and locations of P2PE-encrypted account data
- Flows and locations of clear-text account data
- Location of critical system components (e.g., HSMs, Host System)
- All entities the solution connects to for payment transmission or processing, including processors/acquirers.

Note: the diagram should identify where merchant entities fit into the data flow, without attempting to identify individual merchants. For example, P2PE-encrypted account data could be illustrated as flowing between an icon that represents all merchant customers and an icon that represents the solution provider's decryption environment.



<Insert P2PE Solution data flow diagram(s)>

3.5 Key management processes

Description of Cryptographic Key Management Processes

Provide one or more **high-level** diagrams showing all key management processes, including:

- Key Generation
- Key Distribution / Loading / Injection onto POI devices
- Other Key Distribution / Loading / Injection activities
- Key Storage
- Key Usage
- Key Archiving (if applicable)

Note: include both logical and physical components—e.g., network traffic flows, locations of safes, use of secure couriers, etc.



<Insert applicable diagram(s) showing all key management processes>

Description of Cryptographic Keys used in P2PE Solution

Provide a brief description* of all types of cryptographic keys used in the solution, as follows:

Key type / description	Purpose/ function of the key

Note: A detailed Key Matrix is included in Domain 6.

3.6 Facilities

Lab environment used by the P2PE Assessor for this assessment

Identify whether the lab was provided by the P2PE Assessor or the Solution Provider: P2PE Assessor's Lab Solution Provider's Lab

Address of the lab environment used for this assessment:

Describe the lab environment used for this assessment:

List of all facilities INCLUDED in this solution assessment

Description and purpose of facility included in assessment	Address of facility

List of facilities used in P2PE solution that were EXCLUDED from this solution assessment*

Description and purpose of facility excluded from assessment	Address of facility	Explanation why the facility was excluded from the assessment	Details of any separate assessments performed for the facility, including how the other assessment was verified to cover all components in scope for this solution

* **Note:** Does not include merchant locations.

3.7 Documentation Reviewed

Identify and list all reviewed documents below. Add additional rows as needed.

Note: If the PIM or P2PE Application Implementation Guide consists of more than one document, the brief description below should explain the purpose of each document it includes, such as if it is for a different POIs, for different functions, etc.

P2PE Instruction Manual(s) (PIM):

Reference # (optional use)	Document Name (Title of the PIM)	Version Number of the PIM	Document date (latest version date)	Which POI types are addressed? (Must align with Section 2.5)

P2PE Application Implementation Guide(s) (IG):

Reference # (optional use)	Document Name (Title of the IG)	Version Number of the IG	Document date (latest version date)	Which P2PE Application is addressed? (Must align with Section 2.3)

All other documentation reviewed for this P2PE Assessment:

Reference # (optional use)	Document Name (including version, if applicable)	Document date (latest version date)	Document Purpose

3.8 Individuals Interviewed

List of all personnel interviewed for this solution assessment:

Reference # (optional use)	Interviewee's Name	Company	Job Title

3.9 Device Samples for P2PE Assessment

Complete for all sampled devices in the P2PE assessment, including for every POI device type at Section 2.5 above and every other SCD type at Section 2.6 above.

Note: Use of the "Sample Reference #" is optional, but if not used here, all of the sample's serial numbers or other identifiers in the third column will need to be included in the reporting findings

Sample Ref #: (optional)	Sample Size	Serial Numbers of Tested Devices/Other Identifiers	Sampling Rationale

4. Findings and Observations

Domain 1: Encryption Device and Application Management – Summary of Findings

Domain 1: P2PE Validation Requirements	Summary of Findings (check one)		
	In Place	N/A	Not in Place
1A Account data must be encrypted in equipment that is resistant to physical and logical compromise.			
1A-1 PCI-approved POI devices with SRED are used for transaction acceptance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1A-2 Applications on POI devices with access to clear-text account data are assessed per Domain 2 before being deployed into a P2PE solution.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1B Logically secure POI devices.			
1B-1 Solution provider ensures that logical access to POI devices deployed at merchant encryption environment(s) is restricted to authorized personnel.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1B-2 Solution provider secures any remote access to POI devices deployed at merchant encryption environments.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1B-3 The solution provider implements procedures to protect POI devices and applications from known vulnerabilities and securely update devices.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1B-4 Solution provider implements procedures to secure account data when troubleshooting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1B-5 The P2PE solution provides auditable logs of any changes to critical functions of the POI device(s).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1C Use P2PE applications that protect PAN and SAD.			
1C-1 Applications are implemented securely, including when using shared resources and when updating applications and application functionality.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1C-2 All applications/software without a business need do not have access to account data.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1D Implement secure application-management processes.			
1D-1 Integrity of applications is maintained during installation and updates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1D-2 Maintain instructional documentation and training programs for the application's installation, maintenance/upgrades, and use.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Domain 1: P2PE Validation Requirements	Summary of Findings (check one)		
	In Place	N/A	Not in Place
1E Component providers <i>ONLY</i>: report status to solution providers			
1E-1 For component providers of encryption-management services, maintain and monitor critical P2PE controls and provide reporting to the responsible solution provider.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Domain 1: Encryption Device and Application Management – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
1A-1.1 Encryption operations must be performed using a POI device approved per the PCI PTS program (e.g., a PCI-approved PED or SCR), with SRED (secure reading and exchange of data). The PTS approval listing must match the deployed devices in the following characteristics: <ul style="list-style-type: none"> • Model name and number • Hardware version number • Firmware version number • SRED listed as a function provided 		
1A-1.1 For each POI device type used in the solution, examine the POI device configurations and review the PCI SSC list of Approved PTS Devices to verify that all of the following POI device characteristics match the PTS listing: <ul style="list-style-type: none"> • Model name/number • Hardware version number • Firmware version number • SRED listed as a function provided 	For each POI device type used in the solution, describe how the POI device configurations and PCI SSC list of Approved PTS Devices verified that all of the POI device characteristics at 1A-1.1 match the PTS listing: <Report Findings Here>	
1A-1.1.1 The POI device’s SRED capabilities must be enabled and active.		
1A-1.1.1.a Examine the solution provider’s documented procedures and interview personnel to verify that procedures are defined to ensure that SRED capabilities are enabled and active on all POI devices prior to devices being deployed to merchant encryption environments.	Documented procedures reviewed:	<Report Findings Here>
	Personnel interviewed:	<Report Findings Here>
1A-1.1.1.b For all POI device types used in the solution, review POI device configurations to verify that all POI device types used in the solution have SRED capabilities enabled and active (that is, the POI devices are operating in “encrypting mode”) prior to devices being deployed to merchant encryption environments.	For each POI device type used in the solution, describe how the POI device configurations observed verified that SRED capabilities are enabled and active prior to being deployed to merchant encryption environments: <Report Findings Here>	
1A-1.2 POI devices must be configured to use only SRED-validated account-data capture mechanisms.		

Domain 1: Encryption Device and Application Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
1A-1.2.a For all POI device types intended for use in the P2PE solution, identify and document all account-data capture interfaces.	Refer to Section 2.5 “PTS Devices Supported” in the Summary Overview for this documentation. No further reporting required here.	
1A-1.2.b For each POI device type used in the solution, examine the device configuration to verify that it is configured by default to use only SRED-validated account-data capture mechanisms for accepting and processing P2PE transactions.	For each POI device type used in the solution, describe how the device configuration verified that each device type is configured by default to use only SRED-validated account-data capture mechanisms for accepting and processing P2PE transactions: <Report Findings Here>	
1A-1.2.1 All capture mechanisms on the POI device must be SRED-validated, or must be disabled or otherwise prevented from being used for P2PE transactions such that they cannot be enabled by the merchant.		
1A-1.2.1.a Examine POI configuration and deployment procedures to verify they include either: <ul style="list-style-type: none"> Disabling all capture mechanisms that are not SRED validated, or Implementing configurations that prevent all non-SRED validated capture mechanisms from being used for P2PE transactions. 	Documented POI configuration and deployment procedures reviewed:	<Report Findings Here>
1A-1.2.1.b Verify that the documented procedures include ensuring that all non-SRED-validated capture mechanisms are disabled or otherwise prevented from being used for P2PE transactions prior to devices being deployed to merchant encryption environments.	Documented procedures reviewed:	<Report Findings Here>
1A-1.2.1.c For all POI device types, verify: <ul style="list-style-type: none"> All non-validated capture mechanisms are either disabled or configured to prevent their use for P2PE transactions, prior to devices being deployed to merchant encryption environments. Disabled capture mechanisms cannot be enabled by the merchant, and/or the configurations that prevent capture mechanisms from being used for P2PE transactions cannot be enabled by the merchant. 	Describe the testing methods used to verify that for all POI device types, all non-validated capture mechanisms are either disabled or configured to prevent their use for P2PE transactions, prior to devices being deployed to merchant encryption environments: <Report Findings Here>	
	Describe the testing methods used to verify that for all POI device types, disabled capture mechanisms cannot be enabled by the merchant, and/or the configurations that prevent capture mechanisms from being used for P2PE transactions cannot be enabled by the merchant. <Report Findings Here>	
1A-1.3 If the POI device implements open protocols as part of the solution, the device must also be validated to the PCI PTS Open Protocols (OP) module. Open protocols include the following: <ul style="list-style-type: none"> Link Layer Protocols IP Protocols Security Protocols IP Services 		

Domain 1: Encryption Device and Application Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>1A-1.3 For all POI device types that implement open protocols, examine device configurations and review the list of approved PTS devices at www.pcisecuritystandards.org, to verify that all POI devices that implement open protocols used in this solution are listed. Confirm each such device has a valid SSC listing number on the PCI SSC website under “Approved PCI PTS Devices” with “OP” listed as a “function provided”.</p>	<p>Refer to Section 2.5 “PTS Devices Supported” in the Summary Overview for this documentation. No further reporting required here.</p>	
<p>1A-1.4 Clear-text account data must not be disclosed to any component or device outside of the PCI-approved POI device.</p>		
<p>1A-1.4.a Examine documented transaction processes and data flows to verify that clear-text account data is not disclosed to any component or device outside of the PCI-approved POI device.</p>	<p>Documented transaction processes and data flows reviewed:</p>	<p><Report Findings Here></p>
<p>1A-1.4.b Using forensic tools and/or other data tracing methods, inspect a sample of transactions to verify that clear-text account data is not disclosed to any component or device outside of the PCI-approved POI device.</p>	<p>Identify the sample of transactions</p>	<p><Report Findings Here></p>
	<p>Describe the forensic tools and/or other data tracing methods used to inspect the sample of transactions:</p> <p><Report Findings Here></p>	
<p>1A-2.1 All applications on POI devices with access to clear-text account data must be assessed according to Domain 2. The assessment must match the application in the following characteristics:</p> <ul style="list-style-type: none"> • Application name • Version number 		
<p>1A-2.1.a For applications on the PCI SSC list of Validated P2PE Applications, review the list and compare to applications used in the solution to verify that the applications match the P2PE application listing in the following characteristics:</p> <ul style="list-style-type: none"> • Application name • Version number 	<p>Refer to Section 2.3 “Listed P2PE Applications used in the P2PE Solution” in the Summary Overview for this documentation. No further reporting required here.</p>	
<p>1A-2.1.b For applications not on the PCI SSC list of Validated P2PE Applications, review the application P-ROV(s) and verify that the applications used in the solution match the application P-ROV in the following characteristics:</p> <ul style="list-style-type: none"> • Application name • Version number 	<p>Identify application P-ROV(s) reviewed:</p>	<p><Report Findings Here></p>
<p>1A-2.1.b For applications not on the PCI SSC list of Validated P2PE Applications, review the application P-ROV(s) and verify that the applications used in the solution match the application P-ROV in the following characteristics:</p> <ul style="list-style-type: none"> • Application name • Version number 		

Domain 1: Encryption Device and Application Management – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>1A-2.2.a. For applications on the PCI SSC list of Validated P2PE Applications, review the list and verify all POI device types the application is used on are:</p> <ul style="list-style-type: none"> Confirmed per 1A-1.1 as a PTS-approved device(s) Explicitly included in that application’s listing 	<p>Refer to Section 2.3 “Listed P2PE Applications used in the P2PE Solution” and Section 2.5 “PTS Devices Supported” in the Summary Overview for this documentation. No further reporting required here.</p>	
<p>1A-2.2.b For applications not on the PCI SSC list of Validated P2PE Applications, review the application P-ROV and verify the POI device types the application is used on are:</p> <ul style="list-style-type: none"> Confirmed per 1A-1.1 as a PTS-approved device(s) Explicitly included in that P-ROV as assessed for that application. 	<p>Refer to Section 2.5 “PTS Devices Supported” in the Summary Overview for confirmation per 1A-1.1 of PTS-approval (if this testing procedure is applicable).</p>	
<p>1B-1.1 Solution provider must ensure merchant logical access to POI devices, if needed, is restricted as follows:</p> <ul style="list-style-type: none"> Be read-only Only view transaction-related data Cannot view or access cryptographic keys Cannot view or access clear-text PAN Cannot view or access SAD Cannot view or access device configuration settings that could impact the security controls of the device, or allow access to cryptographic keys or clear-text PAN and/or SAD Cannot enable disabled device interfaces or disabled data-capture mechanisms 	<p>Identify application P-ROV(s) reviewed:</p>	<p><Report Findings Here></p>
<p>1B-1.1.a Examine documented POI device configuration procedures and account privilege assignments to verify that merchant logical access to POI devices is restricted as follows:</p> <ul style="list-style-type: none"> Be read-only Only view transaction-related data Cannot view or access cryptographic keys Cannot view or access clear-text PAN Cannot view or access SAD. Cannot view or access device configuration settings that could impact the security controls of the device, or allow access to cryptographic keys or clear-text PAN and/or SAD Cannot enable disabled device interfaces or disabled data-capture mechanisms 	<p>Documented procedures reviewed:</p>	<p><Report Findings Here></p>
	<p>Describe how account privilege assignments verified that merchant logical access to POI devices is restricted as follows:</p> <ul style="list-style-type: none"> Be read-only Only view transaction-related data Cannot view or access cryptographic keys Cannot view or access clear-text PAN Cannot view or access SAD. Cannot view or access device configuration settings that could impact the security controls of the device, or allow access to cryptographic keys or clear-text PAN and/or SAD Cannot enable disabled device interfaces or disabled data-capture mechanisms 	
	<p><Report Findings Here></p>	

Domain 1: Encryption Device and Application Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
1B-1.1.b For a sample of all POI devices used in the solution, logon to the device using an authorized test merchant account. Verify that merchant-account logical access meets the following: <ul style="list-style-type: none"> • Be read-only • Only view transaction-related data • Cannot view or access cryptographic keys • Cannot view or access clear-text PAN • Cannot view or access SAD. • Cannot view or access device configuration settings that could impact the security controls of the device, or allow access to cryptographic keys or clear-text PAN and/or SAD • Cannot enable disabled device interfaces or disabled data-capture mechanisms 	Identify the sample of POI devices used:	<Report Findings Here>
	Describe how logon to the device using an authorized test merchant account verified that merchant-account logical access meets the following: <ul style="list-style-type: none"> • Be read-only • Only view transaction-related data • Cannot view or access cryptographic keys • Cannot view or access clear-text PAN • Cannot view or access SAD. • Cannot view or access device configuration settings that could impact the security controls of the device, or allow access to cryptographic keys or clear-text PAN and/or SAD • Cannot enable disabled device interfaces or disabled data-capture mechanisms 	
	<Report Findings Here>	
1B-1.1.c Observe a sample of POI device configurations and interview responsible personnel to verify that the defined merchant-access requirements are configured for all devices used in the solution.	Responsible personnel interviewed:	<Report Findings Here>
	Identify the sample of POI devices used:	<Report Findings Here>
	Describe how the POI device configurations observed verified that the defined merchant-access requirements are configured for all devices used in the solution:	
	<Report Findings Here>	
1B-1.1.1 Where there is a legal or regulatory obligation in a region for merchants to print full PAN on merchant receipts, it is allowable for the merchant to have access to full PAN for this purpose but ONLY if the following are met: <ul style="list-style-type: none"> • The solution provider must document which payment application(s) facilitates printing of PANs for merchants. • The P2PE application that facilitates this is confirmed per 1A-2.1 as assessed to Domain 2 and on PCI SSC's list of Validated P2PE Applications. <i>Note that Domain 2 (at 2A-3.1.2) and Domain 3 (at 3A-1.3) also include requirements that must be met for any P2PE application and P2PE solution provider, respectively, that facilitates merchant printing of full PAN where there is a legal or regulatory obligation to do so.</i>		
1B-1.1.1.a Review solution provider's documentation about the legal/regulatory obligation that requires merchants to have access to full PANs for receipt printing purposes to verify that the documentation specifies which payment application(s) facilitates printing of PANs for merchants.	Solution provider's documented procedures reviewed:	<Report Findings Here>

Domain 1: Encryption Device and Application Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
1B-1.1.1.b Review applications confirmed at 1A-2.1 to verify the application(s) that facilitates printing of full PANs on merchant receipts is on PCI SSC's list of Validated P2PE Applications.	Identify any P2PE Applications at 1A-2.1 that facilitate printing of full PANs on merchant receipts:	<Report Findings Here>
	Refer to Section 2.3 "Listed P2PE Applications used in the P2PE Solution" in the Summary Overview for documentation of the PCI SSC listing of the P2PE Application (if this testing procedure is applicable):	
1B-1.2 All solution-provider personnel with logical access to POI devices deployed in merchant encryption environments must be documented in a formal list and authorized by solution provider management. The list of authorized personnel is reviewed at least annually.		
1B-1.2.a Examine documented authorizations to verify: <ul style="list-style-type: none"> • All personnel with access to devices are documented in a formal list. • All personnel with access to devices are authorized by management. • The list of authorized personnel is reviewed at least annually. 	Documented authorizations reviewed:	<Report Findings Here>
	1B-1.2.b For a sample of all POI device types, examine account-access configurations to verify that only personnel documented and authorized in the formal list have access to POI devices.	
		Identify the sample of POI devices used:
		Describe how account-access configurations for a sample of all POI device types verified that only personnel documented and authorized in the formal list have access to POI devices:
		<Report Findings Here>
1B-1.2.1 Solution provider personnel with logical access to POI devices deployed in merchant encryption environments must be granted based on least privilege and need to know.		
1B-1.2.1a Examine documented access-control policies and procedures to verify that solution provider personnel with logical access to POI devices deployed at merchant encryption environments is assigned according to least privilege and need to know.	Documented access-control policies and procedures reviewed:	<Report Findings Here>
	1B-1.2.1.b For a sample of all POI devices and personnel, observe configured accounts and permissions, and interview responsible personnel to verify that the level of logical access granted is according to least privilege and need to know.	
		Identify the sample of POI devices used:
		Identify the sample of personnel used:
		Responsible personnel interviewed:
		Describe how configured accounts and permissions for the sample of all POI devices and personnel verified that the level of logical access granted is according to least privilege and need to know:
		<Report Findings Here>

Domain 1: Encryption Device and Application Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
1B-2.1 Solution provider's authorized personnel must use two-factor or cryptographic authentication for all remote access to merchant POI devices. <i>Note: This includes remote access to POI devices via a terminal management system (TMS) or other similar systems</i>		
1B-2.1.a Examine documented procedures to verify that either two-factor or cryptographic authentication must be used for all remote access to POI devices.	Documented procedures reviewed:	<Report Findings Here>
	1B-2.1.b Observe remote-access mechanisms and controls to verify that either two-factor or cryptographic authentication is configured for all remote access to POI devices. Describe how remote-access mechanisms and controls verified that either two-factor or cryptographic authentication is configured for all remote access to POI devices: <Report Findings Here>	
1B-2.1.c Interview personnel and observe actual remote connection attempts to verify that either two-factor or cryptographic authentication is used for all remote access to POI devices.	Personnel interviewed:	<Report Findings Here>
	Describe how actual remote connection attempts verified that either two-factor or cryptographic authentication is configured for all remote access to POI devices: <Report Findings Here>	
1B-2.2 POI devices must be configured to ensure that remote access is only permitted from the solution provider's authorized systems.		
1B-2.2.a Examine documented device-configuration procedures and interview personnel to verify that devices must be configured to permit remote access only from the solution provider's authorized systems.	Documented device-configuration procedures reviewed:	<Report Findings Here>
	Personnel interviewed:	<Report Findings Here>
1B-2.2.b For all devices used in the solution, observe a sample of device configurations to verify that remote access is permitted only from the solution provider's authorized systems.	Describe how sampled device configurations for all devices used in the solution verified that remote access is permitted only from the solution provider's authorized systems: <Report Findings Here>	
1B-2.3 POI devices must be configured such that merchants do not have remote access to the merchant POI devices.		
1B-2.3.a Examine documented POI-configuration procedures and interview personnel to verify that devices must be configured to ensure merchants do not have remote access to the POI devices.	Documented POI-configuration procedures reviewed:	<Report Findings Here>
	Personnel interviewed:	<Report Findings Here>
1B-2.3.b For all devices used in the solution, observe a sample of device configurations to verify that merchants do not have remote access to the POI devices.	Describe how sampled device configurations for all devices used in the solution verified that merchants do not have remote access to the POI devices: <Report Findings Here>	

Domain 1: Encryption Device and Application Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
1B-2.4 Solution provider must implement secure identification and authentication procedures for remote access to POI devices deployed at merchant encryption environments, including:		
1B-2.4.a Examine documented identification and authentication procedures to verify secure identification and authentication procedures are defined for remote access to POI devices deployed at merchant encryption environments.	Documented identification and authentication procedures reviewed:	<Report Findings Here>
1B-2.4.b Verify documented procedures include requirements specified at 1B-2.4.1 through 1B-2.4.3.	Identify the P2PE Assessor who confirms that documented procedures include requirements specified at 1B-2.4.1 through 1B-2.4.3:	<Report Findings Here>
1B-2.4.1 Individual authentication credentials for all authorized solution-provider personnel that are unique for each merchant. <i>Note: If a centralized terminal-management system (TMS) is utilized to manage multiple merchant accounts, it is acceptable for the TMS system to only require unique access for each authorized solution-provider employee accessing the TMS instead of requiring unique access per merchant.</i>		
1B-2.4.1 Examine device configurations and authentication mechanisms to verify that all authorized solution-provider personnel have individual authentication credentials that are unique for each merchant (or if applicable, per centralized TMS).	Describe how device configurations and authentication mechanisms verified that all authorized solution-provider personnel have individual authentication credentials that are unique for each merchant (or if applicable, per centralized TMS):	<Report Findings Here>
1B-2.4.2 Tracing all logical access to POI devices by solution-provider personnel to an individual user.		
1B-2.4.2.a Examine POI device configurations and authentication mechanisms to verify that all logical access to POI devices can be traced to an individual user.	Describe how POI device configurations and authentication mechanisms verified that all logical access to POI devices can be traced to an individual user:	<Report Findings Here>
1B-2.4.2.b Observe authorized logical accesses and examine access records/logs to verify that all logical access is traced to an individual user.	Describe how the authorized logical accesses and access records/logs observed verified that all logical access is traced to an individual user:	<Report Findings Here>
1B-2.4.3 Maintaining audit logs of all logical access to POI devices, and retaining access logs for at least one year.		
1B-2.4.3.a Observe authorized logical accesses and examine access records/logs to verify that an audit log of all logical access to devices is maintained.	Describe how the authorized logical accesses observed and access records/logs examined verified that an audit log of all logical access to devices is maintained:	<Report Findings Here>
1B-2.4.3.b Examine access records/logs to verify that access logs are retained for at least one year.	Identify access records/logs reviewed:	<Report Findings Here>

Domain 1: Encryption Device and Application Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
1B-3.1 Secure update processes must be implemented for all firmware and software updates, including: <ul style="list-style-type: none"> • Integrity check of update • Authentication of origin of the update 		
1B-3.1.a Examine documented procedures to verify secure update processes are defined for all firmware and software updates, and include: <ul style="list-style-type: none"> • Integrity checks of update • Authentication of origin of the update 	Documented procedures reviewed:	<Report Findings Here>
1B-3.1.b Observe a sample of firmware and software updates, and interview personnel to verify: <ul style="list-style-type: none"> • The integrity of the update is checked • The origin of the update is authenticated 	Identify sample of firmware and software updates observed:	<Report Findings Here>
	Personnel interviewed:	<Report Findings Here>
1B-3.2 An up-to-date inventory of POI device system builds must be maintained and confirmed at least annually and upon any changes to the build.		
1B-3.2.a Examine documented procedures to verify they include: <ul style="list-style-type: none"> • Procedures for maintaining an up-to-date inventory of POI device system builds • Procedures for confirming all builds at least annually and upon any changes to the build 	Documented procedures reviewed:	<Report Findings Here>
1B-3.2.b Review documented inventory of devices, and examine the inventory of system builds to verify: <ul style="list-style-type: none"> • The inventory includes all POI device system builds. • The inventory of POI device system builds is up-to-date. 	Describe how the documented inventory of devices and inventory of system builds verified that: <ul style="list-style-type: none"> • The inventory includes all POI device system builds. • The inventory of POI device system builds is up-to-date. 	
	<Report Findings Here>	
1B-3.2.c Observe results of vulnerability assessments and interview responsible personnel to verify vulnerability assessments are performed against all POI device system builds: <ul style="list-style-type: none"> • At least annually and • Upon any changes to the build 	Responsible personnel interviewed:	<Report Findings Here>
	Describe how results of vulnerability assessments verified that vulnerability assessments are performed against all POI device system builds: <ul style="list-style-type: none"> • At least annually and • Upon any changes to the build 	
	<Report Findings Here>	
1B-3.3 Critical software security updates must be deployed to POI devices in the field within 30 days of receipt from device vendors or application vendors. Note: A “critical software security update” is one that addresses an imminent risk to account data, either directly or indirectly. Note: These security patches can be deployed via “push” from the solution provider or vendor, or via “pull” from the POI device or merchant. In all cases, the solution provider is ultimately responsible to ensure security patches are installed in a timely manner. Aligns with 2C-1.2		

Domain 1: Encryption Device and Application Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
1B-3.3.a Examine documented procedures to verify they include defined procedures for deploying critical software security updates to POI devices in the field within 30 days of receipt from device or application vendors.	Documented procedures reviewed:	<Report Findings Here>
1B-3.3.b Examine security update deployment records and device logs, and interview responsible solution provider personnel and to verify that critical security updates are deployed to devices and applications in the field within 30 days of receipt from device and application vendors.	Responsible solution provider personnel interviewed:	<Report Findings Here>
	Describe how the security update deployment records and device logs verified that critical security updates are deployed to devices and applications in the field within 30 days of receipt from device and application vendors.	
	<Report Findings Here>	
1B-3.4 Updates must be delivered in a secure manner with a known chain-of-trust, as defined by the vendor—e.g., in the POI device vendor’s security guidance or in the P2PE application’s Implementation Guide.		
1B-3.4.a Examine documented procedures for device updates to verify they follow guidance from the device or application vendor for delivering updates in a secure manner with a known chain-of-trust.	Documented procedures reviewed:	<Report Findings Here>
1B-3.4.b Observe processes for delivering updates and interview responsible personnel to verify that updates are delivered in a secure manner with a known chain-of-trust, and following guidance from the device or application vendor.	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the processes for delivering updates verified that updates are delivered in a secure manner with a known chain-of-trust and following guidance from the device or application vendor:	
	<Report Findings Here>	
1B-3.5 The integrity of patch and update code must be maintained during delivery and deployment, as defined by the vendor—e.g., in the POI device vendor’s security guidance or in the P2PE application’s Implementation Guide.		
1B-3.5.a Examine documented procedures for device updates to verify they follow guidance from the device or application vendor to maintain the integrity of all patch and update code during delivery and deployment.	Documented procedures for device updates reviewed:	<Report Findings Here>
1B-3.5.b Observe processes for delivering updates and interview responsible personnel to verify that the integrity of patch and update code is maintained during delivery and deployment, and according to guidance from the device or application vendor.	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the processes for delivering updates verified that the integrity of patch and update code is maintained during delivery and deployment, and according to guidance from the device or application vendor:	
	<Report Findings Here>	
1B-3.5.c Observe authorized personnel attempt to run the update process with arbitrary code to verify that the system will not allow the update to occur.	Describe how the attempt by authorized personnel to attempt to run the update process with arbitrary code verified that they system will not allow the update to occur:	
	<Report Findings Here>	

Domain 1: Encryption Device and Application Management – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
1B-4.1 Any PAN and/or SAD used for debugging or troubleshooting purposes must be securely deleted. These data sources must be collected in limited amounts and collected only when necessary to resolve a problem, encrypted while stored, and deleted immediately after use.		
1B-4.1.a Examine the solution provider’s procedures for troubleshooting customer problems and verify the procedures include: <ul style="list-style-type: none"> • PAN and/or SAD is never output to merchant environments • Collection of PAN and/or SAD only when needed to solve a specific problem • Storage of such data in a specific, known location with limited access • Collection of only a limited amount of data needed to solve a specific problem • Encryption of PAN and/or SAD while stored • Secure deletion of such data immediately after use 	Documented solution provider’s procedures for troubleshooting customer problems reviewed:	<Report Findings Here>
	1B-4.1.b For a sample of recent troubleshooting requests, observe data collection and storage locations, and interview responsible personnel to verify the procedures identified at 1B-4.1.a were followed.	
	Identify the sample of recent troubleshooting requests:	<Report Findings Here>
	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the data collection and storage locations for the sample of recent troubleshooting requests verified that procedures identified at 1B-4.1.a were followed:	
	<Report Findings Here>	
1B-5.1 Any changes to critical functions of POI devices must be logged—either on the device or within the remote-management systems of the P2PE solution provider. Note: <i>Critical functions include application and firmware updates as well as changes to security-sensitive configuration options, such as whitelists or debug modes.</i>		
1B-5.1.a Examine device and/or system configurations to verify that any changes to the critical functions of the POI devices are logged, including: <ul style="list-style-type: none"> • Changes to the applications within the device • Changes to the firmware within the device • Changes to any security-sensitive configuration options within the device (including whitelists and debug modes) 	Describe how the device and/or system configurations observed verified that any changes to the critical functions of the POI devices are logged, including: <ul style="list-style-type: none"> • Changes to the applications within the device • Changes to the firmware within the device • Changes to any security-sensitive configuration options within the device (including whitelists and debug modes) 	
	<Report Findings Here>	

Domain 1: Encryption Device and Application Management – Reporting							
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings						
<p>1B-5.1.b Observe authorized personnel perform authorized changes on POI devices, as follows, and examine log files to verify that all such activities result in a correlating log file:</p> <ul style="list-style-type: none"> • Changes to the applications within the device • Changes to the firmware within the device • Changes to any security-sensitive configuration options within the device (including whitelists and debug modes) 	<p>Describe how observation of authorized personnel performing authorized changes on POI devices, as follows, and examination of log files verified that all such activities result in a correlating log file:</p> <ul style="list-style-type: none"> • Changes to the applications within the device • Changes to the firmware within the device • Changes to any security-sensitive configuration options within the device (including whitelists and debug modes) <p><Report Findings Here></p>						
<p>1C-1.1 Applications with access to account data must be installed and configured to only use external communication methods specified in the application’s Implementation Guide. Aligns with 2A-3.3</p>							
<p>1C-1.1.a Observe application and device configurations and interview personnel to verify that applications with access to account data are installed and configured to only use approved external communication methods, by following guidance in the application’s Implementation Guide.</p>	<table border="1" style="width: 100%;"> <tr> <td style="width: 30%;">Personnel interviewed:</td> <td style="text-align: center;"><Report Findings Here></td> </tr> <tr> <td colspan="2">Describe how application and device configurations observed verified that applications with access to account data are installed and configured to only use approved external communication methods:</td> </tr> <tr> <td colspan="2" style="text-align: center;"><Report Findings Here></td> </tr> </table>	Personnel interviewed:	<Report Findings Here>	Describe how application and device configurations observed verified that applications with access to account data are installed and configured to only use approved external communication methods:		<Report Findings Here>	
Personnel interviewed:	<Report Findings Here>						
Describe how application and device configurations observed verified that applications with access to account data are installed and configured to only use approved external communication methods:							
<Report Findings Here>							
<p>1C-1.1.b For all devices on which the application will be used in the solution, observe application and device operations as implemented in the solution—that is, the application and device should be tested together with all other applications intended to be installed on the device—and use an appropriate “test platform” (as necessary) provided by the application vendor to perform test transactions for all functions of the application that handle account data. Examine results of tests and verify that the application only uses approved external communication methods.</p>	<p>Describe how results of tests verified that the application only uses approved communication methods for all devices on which the application will be used in the solution:</p> <p style="text-align: center;"><Report Findings Here></p>						
<p>1C-1.2 Processes for any whitelisting functionality must include:</p> <ul style="list-style-type: none"> • Implementing whitelisting functionality in accordance with the device vendor’s security guidance or the application’s Implementation Guide. • Cryptographic signing (or similar) prior to installation on the POI device by authorized personnel using dual control. • Cryptographic authentication by the POI device’s firmware • Review of whitelist functionality to confirm it only outputs non-PCI payment brand account/card data. • Approval of functionality by authorized personnel prior to implementation • Documentation for all new installations or updates to whitelist functionality that includes the following: <ul style="list-style-type: none"> – Description and justification for the functionality – The identity of the authorized person who approved the new installation or updated functionality prior to release – Confirmation that it was reviewed prior to release to only output non-PCI payment brand account/card data <p>Aligns with 2A-3.4</p>							

Domain 1: Encryption Device and Application Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
1C-1.2 Review documented policies and procedures and interview personnel to verify that processes for implementing any whitelisting functionality include: <ul style="list-style-type: none"> • Following the device vendor's security guidance or the application's Implementation Guide • Cryptographic signing (or similar) prior to installation on the POI device by authorized personnel using dual control. • Cryptographic authentication of whitelisting functionality by the POI device's firmware • Review of whitelist functionality to confirm it only outputs non-PCI payment brand account/card data. • Approval of functionality by authorized personnel prior to implementation • Documentation for all new installations and updates to whitelist functionality that includes the following: <ul style="list-style-type: none"> – Description and justification for the functionality – The identity of the authorized person who approved the new installation or updated functionality prior to release – Confirmation that it was reviewed prior to release to only output non-PCI payment brand account/card data 	Documented policies and procedures reviewed:	<Report Findings Here>
	Personnel interviewed:	<Report Findings Here>
1C-1.2.1 Any whitelisting functionality must only allow the output of clear-text account data for non-PCI payment brand account/card data.		
1C-1.2.1.a Observe application and device configurations and interview personnel to verify that whitelisting functionality only allows for the output of non-PCI payment brand accounts/cards, by following guidance in either the device vendor's security guidance or the application's Implementation Guide.	Personnel interviewed:	<Report Findings Here>
	Describe how application and device configurations observed verified that whitelisting functionality only allows for the output of non-PCI payment brand accounts/cards: <Report Findings Here>	
1C-1.2.1.b For all device types with whitelisting functionality, perform test transactions to verify output of clear-text account data is only enabled for non-PCI payment brand account/card data.	Describe how test transactions verified that output of clear-text account data is only enabled for non-PCI payment brand account/card data: <Report Findings Here>	
1C-1.2.2 Any new installations of, or updates, to whitelisting functionality must be: <ul style="list-style-type: none"> • Cryptographically signed (or similar) prior to installation on the POI device only by authorized personnel using dual control. • Cryptographically authenticated by the POI device's firmware in accordance with the device vendor's security guidance or the application's Implementation Guide. 		

Domain 1: Encryption Device and Application Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>1C-1.2.2 Observe the process for new installations of, or updates to, whitelisting functionality and interview personnel to verify they are performed as follows:</p> <ul style="list-style-type: none"> • Cryptographically signed (or similar) prior to installation on the POI device only by authorized personnel using dual control. • Cryptographically authenticated by the POI device firmware, in accordance with the device vendor's security guidance or the application's Implementation Guide. 	Personnel interviewed:	<Report Findings Here>
	Describe how the process for new installations of, or updates to, whitelisting functionality verified they are cryptographically signed (or similar) prior to installation on the POI device only by authorized personnel using dual control:	
	<Report Findings Here>	
	Describe how the process for new installations of, or updates to, whitelisting functionality verified they are cryptographically authenticated by the POI device firmware, in accordance with the device vendor's security guidance or the application's Implementation Guide	
<Report Findings Here>		
<p>1C-1.2.3 Any new installations of, or updates to, whitelisting functionality must follow change-control procedures that include:</p> <ul style="list-style-type: none"> • Coverage for both new installations and updates to such functionality. • Description and justification for the functionality. • The identity of the person who approved the new installation or update prior to release. • Confirmation that it was reviewed prior to release to only output non-PCI payment account/card data. 		
<p>1C-1.2.3 Review records of both new installations and updated whitelisting functionality, and confirm they include the following:</p> <ul style="list-style-type: none"> • Coverage for both new installations and updates to such functionality. • Description and justification for the functionality. • The identity of the person who approved the new installation or update prior to release. • Confirmation that it was reviewed prior to release to only output non-PCI payment account/card data. 	Identify sampled records of new installations of whitelisting functionality:	<Report Findings Here>
	Identify sampled records of updated whitelisting functionality:	<Report Findings Here>
<p>1C-2.1 Processes must be documented and implemented to ensure that, prior to new installations or updates, applications/software without a business need do not have access to account data, including that the software:</p> <ul style="list-style-type: none"> • Does not have any logical interfaces (e.g., application programming interfaces (APIs)) that allow for the storing, processing, or transmitting of account data. • Is cryptographically authenticated by the POI device's firmware. • Requires dual control for the application-signing process. 		

Domain 1: Encryption Device and Application Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
1C-2.1 Review the solution provider’s documented processes and interview responsible personnel to confirm the processes include: <ul style="list-style-type: none"> Review of the application vendor’s documentation to determine all logical interfaces used by the application/software. Documenting how the solution provider confirmed that the application has no logical interfaces that allow for storing, processing, or transmitting account data Authentication of the application by the POI device’s firmware Requiring dual control to authenticate the application Following this process both for new installations and for updates. 	Documented solution provider’s processes reviewed:	<Report Findings Here>
	Responsible personnel interviewed:	<Report Findings Here>
1C-2.1.1 The application/software does not have any logical interfaces—e.g., application programming interfaces (APIs)—that allow for storing, processing, or transmitting account data.		
1C-2.1.1 For each POI device type and each application that does not have a business need to access account data, review the solution provider’s documentation to verify it confirms that the application has no logical interfaces that allows for storing, processing, or transmitting account data.	Identify any application(s) without business need to access account data:	<Report Findings Here>
	Solution provider’s documentation reviewed:	<Report Findings Here>
1C-2.1.2 The application/software is authenticated within the POI device using an approved security mechanism of the POI device.		
1C-2.1.2 Interview solution-provider personnel and observe the process for new application installations or application updates to verify that applications with no need to access clear-text account data are authenticated to the device using an approved security mechanism.	Solution provider personnel interviewed:	<Report Findings Here>
	Describe how the process for new application installations or application updates verified that applications with no need to access clear-text account data are authenticated to the device using an approved security mechanism:	
	<Report Findings Here>	
1C-2.1.3 Require dual control for the application-signing process.		
1C-2.1.3 Interview solution-provider personnel and observe processes for new application installations or application updates to confirm that application signing is performed under dual control.	Solution provider personnel interviewed:	<Report Findings Here>
	Describe how the process for new application installations or application updates verified that application signing is performed under dual control:	
	<Report Findings Here>	

Domain 1: Encryption Device and Application Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>1D-1.1 Processes must be documented and implemented to manage all changes to applications, including:</p> <ul style="list-style-type: none"> • Following vendor guidance in the application’s Implementation Guide. • Documented approval for all changes by appropriate personnel. • Documented reason and impact for all changes. • Functionality testing of all changes on the intended device(s). • Documented back-out procedures for application installations/updates. <p><i>Note that adding a changed application or a changed POI device to a PCI-listed P2PE Solution requires the Solution Provider to undergo an assessment per PCI’s “Designated Change” process. See the P2PE Program Guide for more information.</i></p> <p><i>Aligns with 2C-2.1</i></p>		
<p>1D-1.1.a Review the solution provider’s documented processes for implementing changes to applications, and interview solution-provider personnel, and confirm the following processes are in place:</p> <ul style="list-style-type: none"> • Guidance in the Implementation Guide is followed. • All changes to applications include documented approval by appropriate authorized solution-provider personnel. • All changes to applications are documented as to reason and impact of the change. • Functionality testing of all changes on the intended devices is performed. • Documentation includes back-out procedures for application installations/updates. 	Documented solution provider processes for implementing changes to applications reviewed:	<Report Findings Here>
	Solution provider personnel interviewed:	<Report Findings Here>
<p>1D-1.1.b Review records of changes to applications and, and confirm the following:</p> <ul style="list-style-type: none"> • All Implementation Guide requirements were followed. • Approval of the change by appropriate parties is documented. • The documentation includes reason and impact of the change. • The documentation describes functionality testing that was performed. • Documentation includes back-out procedures for application installations/updates. 	Identify the sample of records of changes to applications:	<Report Findings Here>
<p>1D-1.2 All new installations and updates to applications must be authenticated as follows:</p> <p><i>Aligns with 2C-2.1</i></p>		
<p>1D-1.2 Review the solution provider’s documentation and confirm their documented processes include using the guidance in the application’s Implementation Guide for any application installations and updates.</p>	Solution provider’s documentation reviewed:	<Report Findings Here>
<p>1D-1.2.1 All new installations and updates of applications must be cryptographically authenticated by the POI device’s firmware.</p>		

Domain 1: Encryption Device and Application Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
1D-1.2.1 Interview responsible personnel and observe installation and update processes to confirm that new application installations and updates are cryptographically authenticated by the POI device's firmware.	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the installation and update processes observed verified that new application installations and updates are cryptographically authenticated by the POI device's firmware:	
	<Report Findings Here>	
1D-1.2.2 All applications must be cryptographically signed (or similar) prior to installation on the POI device only by authorized personnel using dual control.		
1D-1.2.2 Confirm the following through interviews with responsible solution provider personnel and by observing an installation/update: <ul style="list-style-type: none"> • Cryptographic signing processes for applications are followed as specified in the Implementation Guide. • Cryptographic signing (or similar) is performed prior to installation only by authorized personnel using dual control. • All new installations and updates to applications are signed prior to installation on the device. • Cryptographic signing for new installations and updates to applications is done under dual control. 	Responsible solution provider personnel interviewed:	<Report Findings Here>
	Describe how the installation/update verified that: <ul style="list-style-type: none"> • Cryptographic signing processes for applications are followed as specified in the Implementation Guide. • Cryptographic signing (or similar) is performed prior to installation only by authorized personnel using dual control. • All new installations and updates to applications are signed prior to installation on the device. • Cryptographic signing for new installations and updates to applications is done under dual control. 	
	<Report Findings Here>	
1D-1.3 The application must be configured to securely integrate with any device resources that may be shared with other applications. <i>Aligns with 2B-2.2</i>		
1D-1.3 Interview solution-provider personnel and observe configuration processes to determine that applications are integrated with any shared resources in accordance with the Implementation Guide.	Solution provider personnel interviewed:	<Report Findings Here>
	Describe how configuration processes observed verified that applications are integrated with any shared resources in accordance with the Implementation Guide:	
	<Report Findings Here>	
1D-1.4 Processes must be in place to implement application developer guidance on key and certificate usage from the application's Implementation Guide. <i>Aligns with 2B-3.1.1</i>		
1D-1.4.a Review the solution provider's documentation and confirm their documented processes include application developer key-management security guidance.	Solution provider's documentation reviewed:	<Report Findings Here>
1D-1.4.b Interview solution-provider personnel to confirm that they follow key-management security guidance in accordance with the Implementation Guide.	Solution provider personnel interviewed:	<Report Findings Here>

Domain 1: Encryption Device and Application Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>1D-2.1 Upon receipt from the application vendor, a current copy of the application vendor’s Implementation Guide must be retained and distributed to any outsourced integrators/resellers used for the P2PE solution. <i>Aligns with 2C-3.1.3</i></p>		
<p>1D-2.1 Interview solution-provider personnel and examine documentation (including a current copy of the Implementation Guide from the application vendor) to confirm the following:</p> <ul style="list-style-type: none"> • The solution provider retains a current copy of the Implementation Guide. • The solution provider distributes the Implementation Guide to any outsourced integrators/resellers the solution provider uses for the P2PE solution upon obtaining updates from the application vendor. 	Solution provider personnel interviewed:	<Report Findings Here>
	Documentation reviewed, in addition to the current copy of the Implementation Guide from the application vendor:	<Report Findings Here>
	Current Application Vendor Implementation Guide(s) reviewed:	<Report Findings Here>
<p>Note: This section is ONLY applicable for P2PE component providers undergoing an assessment of this domain for subsequent PCI listing of the component provider’s device-management services. This section is not applicable to, and does not need to be completed by, P2PE solution providers (or merchants as solution providers) that include device-management functions in their P2PE solution assessment (whether those functions are performed by the solution provider or are outsourced to non-PCI listed third parties).</p>		
<p>1E-1.1 Track status of the encryption-management services and provide reports to solution provider annually and upon significant changes, including at least the following:</p> <ul style="list-style-type: none"> • Types/models of POI devices. • Number of devices deployed and any change in numbers since last report. • Date of last inventory of POI device system builds. • Date list of personnel with logical remote access to deployed merchant POI devices was last reviewed/updated. 		
<p>1E-1.1.a Review component provider’s documented procedures for providing required reporting to applicable solution providers, and interview responsible component-provider personnel, and to confirm that the following processes are documented and implemented:</p> <ul style="list-style-type: none"> • Types/models of POI devices. • Number of devices deployed and change since last report. • Date of last inventory of POI device system builds. • Date list of personnel with logical remote access to deployed merchant POI devices was last reviewed/updated. 	Documented component provider’s procedures reviewed:	<Report Findings Here>
	Responsible component provider personnel interviewed:	<Report Findings Here>

Domain 1: Encryption Device and Application Management – Reporting

Requirements and Testing Procedures		Reporting Instructions and Assessor’s Findings	
<p>1E-1.1.b Observe reports provided to applicable solution providers annually and upon significant changes to the solution, and confirm they include at least the following:</p> <ul style="list-style-type: none"> • Types/models of POI devices. • Number of devices deployed and changed since last report. • Date of last inventory of POI device system builds. • Date list of personnel with logical remote access to deployed merchant POI devices was last reviewed/updated. 		Reports reviewed for this testing procedure:	<Report Findings Here>
<p>1E-1.2 Manage and monitor changes to encryption-management services and notify the solution provider upon occurrence of any of the following:</p> <ul style="list-style-type: none"> • Critical software security updates deployed to POI devices. • Addition and/or removal of POI device types. • Adding, changing, and/or removing P2PE applications on POI devices (with access to clear-text account data), including description of change. • Adding, changing, and/or removing P2PE non-payment software on POI devices (without access to clear-text account data), including description of change. • Updated list of POI devices, P2PE applications, and/or P2PE non-payment software. <p><i>Note that adding, changing, or removing POI device types, P2PE applications, and/or P2PE non-payment software may require adherence to PCI SSC’s process for P2PE Designated Changes to Solutions. Please refer to the P2PE Program Guide for details about obligations when adding, changing, or removing elements of a P2PE solution.</i></p>			
<p>1E-1.2.a Review component provider’s documented procedures and interview responsible component-provider personnel, and confirm that processes include notifying the solution provider upon occurrence of the following:</p> <ul style="list-style-type: none"> • Critical software security updates deployed to POI devices. • Addition and/or removal of POI device types. • Adding, changing, and/or removing P2PE applications on POI devices (with access to clear-text account data), including description of change. • Adding, changing, and/or removing P2PE non-payment software on POI devices (without access to clear-text account data), including description of change. • Updated list of POI devices, P2PE applications, and/or P2PE non-payment software. 		Documented component provider’s procedures reviewed:	<Report Findings Here>
		Responsible component provider personnel interviewed:	<Report Findings Here>

Domain 1: Encryption Device and Application Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>1E-1.2.b Observe reports provided to applicable solution providers, and confirm at least the following are reported upon occurrence:</p> <ul style="list-style-type: none"> • Critical software security updates deployed to POI devices. • Addition and/or removal of POI device types. • Adding, changing, and/or removing P2PE applications on POI devices (with access to clear-text account data), including description of change. • Adding, changing, and/or removing P2PE non-payment software (without access to clear-text account data), including description of change. • Updated list of POI devices, P2PE applications, and/or P2PE non-payment software. 	<p>Reports reviewed for this testing procedure:</p>	<p><Report Findings Here></p>

Domain 2: Application Security – Summary of Findings

Domain 2 is Not Applicable for P2PE Solution assessments. All P2PE Applications must use the P2PE Application P-ROV Reporting Template.

Domain 3: P2PE Solution Management – Summary of Findings

Domain 3: P2PE Validation Requirements	Summary of Findings (check one)		
	In Place	N/A	Not in Place
3A P2PE solution management			
3A-1 The solution provider maintains documentation detailing the P2PE solution architecture and data flows.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3A-2 The solution provider manages and monitors status reporting from P2PE component providers.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3A-3 Solution provider implements processes to respond to notifications from merchants, component providers and/or third parties, and provide notifications about any suspicious activity involving the P2PE solution.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3A-4 If the solution provider allows a merchant to stop P2PE encryption of account data, the solution provider manages the related process for merchants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3B Third-party management			
3B-1 The solution provider facilitates and maintains formal agreements with all third parties contracted to perform P2PE functions on behalf of the solution provider.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3C Creation and maintenance of P2PE Instruction Manual for merchants			
3C-1 Solution provider develops, maintains, and disseminates a P2PE Instruction Manual to merchants.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Domain 3: P2PE Solution Management – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
3A-1.1 Current documentation must be maintained to describe or illustrate the architecture of the overall P2PE solution and include the following: <ul style="list-style-type: none"> • Identification of all parts of the overall solution managed by the solution provider • Identification of any parts of the overall solution outsourced to third-party service providers • Identification of P2PE controls covered by each third-party service provider. 		
3A-1.1.a Interview relevant personnel and review documentation to verify that procedures exist for maintaining documentation that describes and/or illustrates the architecture of the overall P2PE solution.	Documented procedures reviewed:	<Report Findings Here>
	Relevant personnel interviewed:	<Report Findings Here>

Domain 3: P2PE Solution Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
3A-1.1.b Interview relevant personnel and review documentation that describes and/or illustrates the architecture of the overall P2PE solution to verify that the document is current.	Documented procedures reviewed:	<Report Findings Here>
	Relevant personnel interviewed:	<Report Findings Here>
3A-1.1.c Interview relevant personnel and review documentation that describes and/or illustrates the architecture of the overall P2PE solution to verify that the document: <ul style="list-style-type: none"> Identifies all components of the overall solution managed by the solution provider. Identifies all components of the overall solution that have been outsourced to third-party solution providers. Identifies all P2PE controls covered by each third-party service provider. 	Documented procedures reviewed:	<Report Findings Here>
	Relevant personnel interviewed:	<Report Findings Here>
3A-1.2 Current documentation (including a data-flow diagram) must include details of the account-data flow from the POI device (the point the card data is captured and encrypted) through to the point the encrypted card data is decrypted and the clear-text data exits the decryption environment.		
3A-1.2 Examine the data-flow diagram and interview personnel to verify the diagram: <ul style="list-style-type: none"> Shows all account data flows across systems and networks from the point the card data is captured through to the point the card data exits the decryption environment. Is kept current and updated as needed upon changes to the environment. 	Data-flow diagram reviewed:	<Report Findings Here>
	Personnel interviewed:	<Report Findings Here>
3A-1.3 Where there is a legal or regulatory obligation in a region for merchants to print full PAN on merchant receipts, it is allowable for the merchant to have access to full PAN for this purpose but the solution provider must document specifics about the legal or regulatory obligation including at least the following: <ul style="list-style-type: none"> What specifically is required Which legal/regulatory entity requires it To which region/country it applies <i>Note that Domain 1 (at 1B-1.1.1) and Domain 2 (at 2A-3.1.2) also include requirements that must be met for any POI device and any P2PE application, respectively, that facilitates merchant printing of full PAN where there is a legal or regulatory obligation to do so.</i>		
3A-1.3.a Review solution provider's documentation about the legal/regulatory obligation that requires merchants to have access to full PANs for receipt printing purposes to verify that the documentation includes at least the following details about the legal/regulatory obligation: <ul style="list-style-type: none"> What specifically is required Which legal/regulatory entity requires it To which region/country it applies 	Documented solution provider's procedures reviewed:	<Report Findings Here>
	3A-1.3.b Perform independent review of, or conduct interviews with responsible solution provider personnel, to verify that the exception to facilitate merchants' access to full PANs is based on a legal/regulatory obligation and not solely for convenience.	
Responsible solution provider personnel interviewed:		<Report Findings Here>
OR Describe how independent review verified that the exception to facilitate merchants' access to full PANs is based on a legal/regulatory obligation and not solely for convenience:		

Domain 3: P2PE Solution Management – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
	<i><Report Findings Here></i>	
<p>3A-2.1 Where P2PE component providers are used, a methodology must be implemented to manage and monitor status reporting from P2PE component providers, including:</p> <ul style="list-style-type: none"> Ensuring reports are received from all P2PE component providers as specified in the “Component providers ONLY: report status to solution providers” sections of Domains 1, 5, and/or 6 (as applicable to the component provider). Confirming reports include at least the details specified in the “Component providers ONLY: report status to solution providers” sections of Domains 1, 5, and/or 6 (as applicable to the component provider), and any additional details as agreed between a component provider and the solution provider. Following up with the component provider to resolve any questions or changes in expected performance of the component provider. 		
<p>3A-2.1 Where component providers are used, interview responsible personnel, review documentation, and observe processes to verify the solution provider has implemented a methodology for managing and monitoring status reporting from P2PE component providers, including processes for:</p> <ul style="list-style-type: none"> Ensuring reports are received from all P2PE component providers as specified in the “Component providers ONLY: report status to solution providers” sections of Domains 1, 5, and/or 6 (as applicable to the component provider). Confirming reports include at least the details specified in the “Component providers ONLY: report status to solution providers” sections of Domains 1, 5, and/or 6 (as applicable to the component provider), and any additional details as agreed between a component provider and the solution provider. Following up with the component provider to resolve any questions or changes in expected performance of the component provider. 	Documented procedures reviewed:	<i><Report Findings Here></i>
	Responsible personnel interviewed:	<i><Report Findings Here></i>
	Describe the processes observed that verified that the solution provider has implemented a methodology for managing and monitoring status reporting from P2PE component providers, including processes for: <ul style="list-style-type: none"> Ensuring reports are received from all P2PE component providers as specified in the “Component providers ONLY: report status to solution providers” sections of Domains 1, 5, and/or 6 (as applicable to the component provider). Confirming reports include at least the details specified in the “Component providers ONLY: report status to solution providers” sections of Domains 1, 5, and/or 6 (as applicable to the component provider), and any additional details as agreed between a component provider and the solution provider. Following up with the component provider to resolve any questions or changes in expected performance of the component provider. 	
	<i><Report Findings Here></i>	
<p>3A-2.2 Processes must be implemented to ensure P2PE controls are maintained when changes to the P2PE solution occur including, but not limited to:</p> <ul style="list-style-type: none"> Changes in third-party service providers Changes in overall solution architecture 		
<p>3A-2.2.a Interview responsible personnel and review documentation to verify the solution provider has a formal process for ensuring P2PE controls are maintained when changes to the P2PE solution occur, including procedures for addressing the following:</p> <ul style="list-style-type: none"> Changes in third-party service providers Changes in overall solution architecture 	Documented procedures reviewed:	<i><Report Findings Here></i>
	Responsible personnel interviewed:	<i><Report Findings Here></i>
<p>3A-2.2.b For a sample of changes, verify changes were documented and the solution updated accordingly.</p>	Sample of changes reviewed:	<i><Report Findings Here></i>

Domain 3: P2PE Solution Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>3A-3.1 Processes must be implemented to respond to notifications from merchants, component providers, and other third parties about any suspicious activity, and provide immediate notification to all applicable parties of suspicious activity including but not limited to:</p> <ul style="list-style-type: none"> • Physical device breaches • Tampered, missing, or substituted devices • Unauthorized logical alterations to devices (e.g., configuration, access controls, whitelists) • Failure of any device security control • Unauthorized use of sensitive functions (e.g., key-management functions) • Encryption/decryption failures <p>Note: “immediate” means promptly or as soon as possible.</p>		
<p>3A-3.1 Examine documented procedures and interview personnel to verify processes are implemented to respond to notifications from merchants, component providers, and other third parties about any suspicious activity and provide immediate notification to all applicable parties, including but not limited to:</p> <ul style="list-style-type: none"> • Physical device breaches • Tampered, missing, or substituted devices • Unauthorized logical alterations to devices (e.g., configuration, access controls, whitelists) • Failure of any device security control • Unauthorized use of sensitive functions (e.g., key-management functions) • Encryption/decryption failures 	Documented procedures reviewed:	<Report Findings Here>
	Personnel interviewed:	<Report Findings Here>
<p>3A-3.2 Upon detection of any suspicious activity defined at 3B-4.1, the POI device must be immediately removed, shut down, or taken offline until the integrity of the device is verified and the P2PE encryption mechanism is restored.</p>		
<p>3A-3.2 Review documented procedures and interview responsible personnel to verify that upon detection of any suspicious activity defined at 3A-4.1, POI devices are immediately removed, shut down, or taken offline.</p>	Documented procedures reviewed:	<Report Findings Here>
	Personnel interviewed:	<Report Findings Here>
<p>3A-3.2.1 The POI device must not be re-enabled until it is confirmed that either:</p> <ul style="list-style-type: none"> • The issue has been resolved and P2PE encryption functionality is restored and re-enabled, or • The merchant has provided written notification (signed by a merchant executive officer) formally requesting stopping of P2PE encryption services, according to the solution provider’s procedures (as defined in Requirement 3B-5.1). 		
<p>3A-3.2.1 Examine documented procedures and interview personnel to verify the POI devices must not be re-enabled until it is confirmed that either:</p> <ul style="list-style-type: none"> • The issue has been resolved and P2PE encryption functionality is restored and re-enabled, or • The merchant has provided written notification (signed by a merchant executive officer) requesting stopping of P2PE encryption services, according to the solution provider’s procedures (as defined in Requirement 3B-5.1). 	Documented procedures reviewed:	<Report Findings Here>
	Personnel interviewed:	<Report Findings Here>

Domain 3: P2PE Solution Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>3A-3.3 The solution provider must maintain a record of all suspicious activity, to include the following:</p> <ul style="list-style-type: none"> • Identification of affected device(s), including make, model, and serial number • Identification of affected merchant, including specific sites/locations if applicable • Date/time of incident • Duration of device downtime • Date/time that the issue was resolved • Details of whether any account data was transmitted from the POI device(s) during the time that encryption was malfunctioning or disabled 		
<p>3A-3.3 Examine documented procedures and related records, and interview personnel to verify they maintain records of all suspicious activity, including the following details:</p> <ul style="list-style-type: none"> • Identification of affected device(s), including make, model, and serial number • Identification of affected merchant, including specific sites/locations if applicable • Date/time of incident • Duration of device downtime • Date/time that issue was resolved • Details of whether any account data was transmitted from the POI device(s) during the time that encryption was malfunctioning or disabled. 	Documented procedures reviewed:	<Report Findings Here>
	Related records reviewed:	<Report Findings Here>
	Personnel interviewed:	<Report Findings Here>
<p>3A-3.4 Procedures must incorporate any applicable incident response procedures defined by the PCI payment brands, including timeframes for reporting incidents.</p>		
<p>3A-3.4.a Examine documented incident-response plans to verify they incorporate procedures defined by all applicable PCI payment brands, including timeframes for reporting incidents.</p>	Documented incident-response plans reviewed:	<Report Findings Here>
<p>3A-3.5.b Interview responsible personnel to verify that any response procedures defined by all applicable PCI payment brands, including timeframes for reporting incidents, are known and implemented.</p>	Responsible personnel interviewed:	<Report Findings Here>
<p>3A-3.5 Processes must be implemented to ensure any P2PE control failures are addressed including, but not limited to:</p> <ul style="list-style-type: none"> • Identification that a failure has occurred • Identifying the root cause • Determining remediation needed to address root cause • Identifying and addressing any security issues that occurred during the failure • Updating the solution and/or controls to prevent cause from recurring 		
	Responsible personnel interviewed:	<Report Findings Here>

Domain 3: P2PE Solution Management – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
3A-3.5.a Interview responsible personnel and review documentation to verify the solution provider has a formal process for any P2PE control failures, including procedures for addressing the following: <ul style="list-style-type: none"> • Identification that a failure has occurred • Identifying the root cause • Determining remediation needed to address root cause • Identifying and addressing any security issues that occurred during the failure • Implementing controls to prevent cause from recurring 	Documentation reviewed:	<Report Findings Here>
3A-3.6.b For a sample of P2PE control failures, interview personnel and review supporting document to verify that: <ul style="list-style-type: none"> • Identification occurred. • Corrective actions were implemented and documented. • The solution and/or control was updated accordingly. 	Sample of P2PE control failures:	<Report Findings Here>
	Supporting document reviewed:	<Report Findings Here>
	Responsible personnel interviewed:	<Report Findings Here>
3A-4.1 If the solution provides an option to allow merchants to stop P2PE encryption of account data, the solution provider must document and implement a process for merchants that includes the following:		
3A-4.1 If the solution provides an option to allow merchants to stop P2PE encryption of account data, examine documented procedures to verify the solution provider has a documented process for merchants to follow that includes the requirements specified at 3A-4.1.1 and 3A-4.1.2.	Documented procedures for merchants reviewed:	<Report Findings Here>
3A-4.1.1 P2PE encryption of account data for a merchant is stopped only upon receipt by the solution provider of a formal request from the merchant (signed by a merchant executive officer).		
3A-4.1.1 Interview responsible personnel and observe processes to verify that P2PE encryption of account data for a merchant is stopped only upon receipt by the solution provider of a formal notification request from the merchant (signed by a merchant executive officer).	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the observed processes verified that P2PE encryption of account data for a merchant is stopped only upon receipt by the solution provider of a formal notification request from the merchant (signed by a merchant executive officer):	
	<Report Findings Here>	
3A-4.1.2 Maintaining records of all such requests received from merchants, including the following: <ul style="list-style-type: none"> • Identification of merchant submitting request • Date request received • Copy of the formal notification from merchant 		
	Responsible personnel interviewed:	<Report Findings Here>

Domain 3: P2PE Solution Management – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>3A-4.1.2 Observe implemented processes and interview responsible personnel to verify a record of all received requests is maintained and includes:</p> <ul style="list-style-type: none"> • Identification of merchant submitting request • Date initial request received • Copy of the formal notification from merchant 	<p>Describe how the implemented processes observed verified that a record of all received requests is maintained and includes:</p> <ul style="list-style-type: none"> • Identification of merchant submitting request • Date initial request received • Copy of the formal notification from merchant <p style="text-align: center;"><i><Report Findings Here></i></p>	
<p>3B-1.1 Solution provider must have formal agreements in place with all third parties that perform P2PE functions on behalf of the solution provider, including:</p> <ul style="list-style-type: none"> • All functions each third party is responsible for • Agreement to maintain P2PE controls for which they are responsible • Notification and documentation of any changes affecting the third party governed by P2PE requirements • Notification of any security-related incidents • Defining and maintaining appropriate service level agreements (SLAs) • Maintaining compliance with applicable P2PE and/or PCI DSS requirements as needed • Agreement to provide proof of compliance with P2PE requirements and/or PCI DSS requirements as needed • Agreement to provide reports to solution provider as required in the “Component providers ONLY: report status to solution providers” section of the applicable P2PE Domain. 		
<p>3B-1.1.a Examine documented procedures to verify the solution provider has a formalized process in place to establish agreements with all third parties performing services or functions governed by any other domain within this standard. The formalized agreement must include:</p> <ul style="list-style-type: none"> • All functions each third party is responsible for • Maintaining P2PE controls for which they are responsible • Notification and documentation of any changes affecting the third party governed by P2PE requirements • Notification of any security-related incidents • Defining and maintaining appropriate service level agreements (SLAs) • Maintaining compliance with applicable P2PE and/or PCI DSS requirements as needed • Agreement to provide proof of compliance with P2PE requirements and/or PCI DSS requirements as needed • Agreement to provide reports to solution provider as required in the “Component providers ONLY: report status to solution providers” section of the applicable P2PE Domain. 	<p>Documented procedures reviewed:</p>	<p><i><Report Findings Here></i></p>

Domain 3: P2PE Solution Management – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
3B-1.1.b If the solution provider utilizes any third parties, examine the business agreements and verify the elements delineated in 3C-1.1.a are present and adequately accounted for.	Identify the P2PE Assessor who confirms that the business agreements for third parties utilized by the solution provider were reviewed and verified to have the elements delineated in 3C-1.1.a present and adequately accounted for:	<Report Findings Here>
3B-1.2 For all third parties that have been contracted by the solution provider to manage any of the SCD types used in the P2PE solution, the solution provider must establish formal agreements with the third parties to provide them with the following: <ul style="list-style-type: none"> • Notification of any changes to POI devices, P2PE applications, P2PE non-payment software, and/or HSMs per PCI SSC’s process for P2PE Designated Changes to Solutions • Details of the change, including reason • Updated list of POI devices, P2PE applications, P2PE non-payment software, and/or HSMs used in the solution • Evidence of adherence to PCI’s process for P2PE Designated Changes to Solutions 		
3B-1.2 Verify formal agreements established for all third parties managing SCDs on behalf of the solution provider require: <ul style="list-style-type: none"> • Notification of any changes to POI devices, P2PE applications, P2PE non-payment software, and/or HSMs per PCI SSC’s process for P2PE Designated Changes to Solutions • Details of the change, including reason • Updated list of POI devices, P2PE applications, P2PE non-payment software, and/or HSMs used in the solution • Evidence of adherence to PCI’s process for P2PE Designated Changes to Solutions 	Identify the P2PE Assessor who confirms that the business agreements for third parties managing SCDs on behalf of the solution provider were reviewed and verified to require all elements at 3B-1.2:	<Report Findings Here>
3C-1.1 The PIM must be developed, maintained, distributed to merchants, and provided to merchants upon request. Content for the PIM must be in accordance with the mandatory PIM Template.		
3C-1.1.a Examine the P2PE Instruction Manual (PIM) to verify it covers all related instructions, guidance and requirements as specified in the PIM Template.	Identify the P2PE Assessor who confirms that the PIM covers all related instructions, guidance and requirements as specified in the PIM Template:	<Report Findings Here>
3C-1.1.b Examine documented procedures to verify mechanisms are defined to distribute the PIM to all merchants using the P2PE solution, and to provide the PIM to merchants upon request.	Documented procedures reviewed:	<Report Findings Here>
3C-1.1.c Interview responsible personnel and observe processes to verify PIM is distributed to all merchants using the P2PE solution and that the PIM is provided to merchants upon request.	Responsible personnel interviewed:	<Report Findings Here>
	Describe processes observed to verify PIM is distributed to all merchants using the P2PE solution and that the PIM is provided to merchants upon request:	

Domain 3: P2PE Solution Management – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
	<Report Findings Here>	
3C-1.1.d Examine the PIM to verify that all devices specified in the PIM are PCI-approved POI devices that were assessed as part of this P2PE solution assessment.	Identify the P2PE Assessor who confirms that all devices specified in the PIM are PCI-approved POI devices that were assessed as part of this P2PE solution assessment:	<Report Findings Here>
3C-1.1.e Examine the PIM to verify the following: <ul style="list-style-type: none"> All P2PE applications specified in the PIM are assessed for this solution (per Domain 1) All P2PE applications specified in the PIM are either PCI-listed P2PE applications or assessed to Domain 2 as part of this P2PE solution assessment 	Identify the P2PE Assessor who confirms that all P2PE applications specified in the PIM are assessed for this solution (per Domain 1) and that all P2PE applications specified in the PIM are either PCI-listed P2PE applications or assessed to Domain 2 as part of this P2PE solution assessment:	<Report Findings Here>
3C-1.1.f Examine the PIM to verify that all P2PE non-payment software specified in the PIM were assessed as part of this P2PE solution assessment (per Requirement 1C-2).	Identify the P2PE Assessor who confirms that all P2PE non-payment software specified in the PIM were assessed as part of this P2PE solution assessment (per Requirement 1C-2):	<Report Findings Here>
3C-1.1.g Configure each POI device type, settings, etc. in accordance with all instructions in the PIM and confirm the following: <ul style="list-style-type: none"> The PIM provides accurate instructions. The PIM instructions result in a securely installed P2PE solution. 	Describe how it was confirmed that by configuring each POI device type, settings, etc. in accordance with all instructions in the PIM, the PIM provides accurate instructions and those instructions result in a securely installed P2PE solution:	
	<Report Findings Here>	
3C-1.2 Review P2PE Instruction Manual (PIM) at least annually and upon changes to the solution or the P2PE requirements. Update PIM as needed to keep the documentation current with: <ul style="list-style-type: none"> Any changes to the P2PE solution (including additions or removals of POI device types, P2PE applications, and/or P2PE non-payment software), and Any changes to the requirements in this document. 		
3C-1.2.a Examine documented procedures to verify they include: <ul style="list-style-type: none"> PIM must be reviewed at least annually and upon changes to the solution or changes to the P2PE requirements PIM must be updated as needed to keep the document current with: <ul style="list-style-type: none"> Any changes to the P2PE solution (including additions or removals of POI device types, P2PE applications, and/or P2PE non-payment software), and Any changes to the P2PE requirements. 	Documented procedures reviewed:	<Report Findings Here>

Domain 3: P2PE Solution Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>3C-1.2.b Observe processes for reviewing and updating the PIM, and interview responsible personnel to verify:</p> <ul style="list-style-type: none"> • PIM is reviewed at least annually and upon changes to the solution or changes to the PCI P2PE requirements • PIM is updated as needed to keep the document current with: <ul style="list-style-type: none"> - Any changes to the P2PE solution (including additions or removals of POI device types, P2PE applications, and/or P2PE non-payment software), and - Any changes to the P2PE requirements. 	Responsible personnel interviewed:	<Report Findings Here>
	Describe how processes for reviewing and updating the PIM verified that the PIM is updated at least annually, upon changes to the solution or changes to the PCI P2PE requirements, and as needed to keep the document current with any changes to the P2PE solution and any changes to the P2PE requirements:	
	<Report Findings Here>	
3C-1.2.1 Communicate PIM updates to affected merchants, and provide merchants with an updated PIM as needed.		
<p>3C-1.2.1.a Examine documented procedures to verify they include communicating PIM updates to affected merchants and providing an updated PIM as needed.</p>	Documented procedures reviewed:	<Report Findings Here>
<p>3C-1.2.1.b Observe processes for reviewing and updating the PIM, and interview responsible personnel to verify PIM updates are communicated to affected merchants and an updated PIM is provided to merchants as needed.</p>	Responsible personnel interviewed:	<Report Findings Here>
	Describe how processes for reviewing and updating the PIM verified that PIM updates are communicated to affected merchants and an updated PIM is provided to merchants as needed:	
	<Report Findings Here>	

Domain 4: Merchant-managed Solutions – Summary of Findings

Domain 4 is Not Applicable for P2PE Solution assessments.

Domain 5: Decryption Environment – Summary of Findings

Domain 5: P2PE Validation Requirements	Summary of Findings (check one)		
	In Place	N/A	Not in Place
5A Use approved decryption devices.			
<i>5A-1 Use approved decryption devices</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5B Secure the decryption environment.			
<i>5B-1 Maintain processes for securely managing the decryption environment.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5C Monitor the decryption environment and respond to incidents.			
<i>5C-1 Perform logging and monitor the decryption environment for suspicious activity, and implement notification processes.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5D Implement secure, hybrid decryption processes.			
<i>5D-1 Configure the Host System securely.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>5D-2 Access controls for the Host System are configured securely.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>5D-3 Non-console access to the Host System is configured securely.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>5D-4 The physical environment of the Host System is secured.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5E Component providers ONLY: report status to solution providers.			
<i>5E-1 For component providers of decryption-management services, maintain and monitor critical P2PE controls and provide reporting to the responsible solution provider.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Domain 5: Decryption Environment – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
5A-1.1 All hardware security modules (HSMs) must be either: <ul style="list-style-type: none"> • FIPS140-2 Level 3 (overall) or higher certified, or • PCI PTS HSM approved. 		
5A-1.1.a For all HSMs used in the decryption environment, examine approval documentation (e.g., FIPS certification or PTS approval) and review the list of approved devices to verify that all HSMs used in the solution are either: <ul style="list-style-type: none"> • Listed on the NIST Cryptographic Module Validation Program (CMVP) list, with a valid listing number, and approved to FIPS 140-2 Level 3 (overall), or higher. Refer to http://csrc.nist.gov. • Listed on the PCI SSC website, with a valid PCI SSC listing number, as Approved PCI PTS Devices under the approval class “HSM.” 	Approval documentation reviewed:	<Report Findings Here>
5A-1.1.b Examine documented procedures and interview personnel to verify that all account-data decryption operations are performed only by the FIPS-approved and/or PTS-approved HSMs identified in 5A-1.1.a.	Documented procedures reviewed:	<Report Findings Here>
	Personnel interviewed:	<Report Findings Here>
5A-1.1.1 The approval listing must match the deployed devices in the following characteristics: <ul style="list-style-type: none"> • Vendor name • Model name and number • Hardware version number • Device firmware version number • For PCI-approved HSMs, any applications, including application version number, resident within the device which were included in the PTS assessment <p>Note: <i>If the solution provider has applied a vendor security patch resulting in an updated HSM firmware version, and the PCI SSC or NIST validation of that updated firmware version has not yet been completed (resulting in a mismatch between the HSM firmware version in use and the listed, validated one), the solution provider must obtain documentation from the vendor regarding the update that includes confirmation the update has been submitted for evaluation per the process specified by either PCI SSC or NIST (as applicable to the HSM).</i></p>		
5A-1.1.1.a For all PCI-approved HSMs used in the solution, examine HSM devices and review the PCI SSC list of Approved PTS Devices to verify that all of the following device characteristics match the PCI PTS listing for each HSM: <ul style="list-style-type: none"> • Vendor name • Model name/number • Hardware version number • Device firmware version number • Any applications, including application version number, resident within the device which were included in the PTS assessment 	For each PCI-approved HSM used in the solution, describe how the HSM device configurations observed verified that all of the device characteristics at 5A-1.1.1.a match the PTS listing:	
	<Report Findings Here>	

Domain 5: Decryption Environment – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>5A-1.1.1.b For all FIPS-approved HSMs used in the solution, examine HSM devices and review the NIST Cryptographic Module Validation Program (CMVP) list to verify that all of the following device characteristics match the FIPS140-2 Level 3 (or higher) approval listing for each HSM:</p> <ul style="list-style-type: none"> • Vendor name • Model name/number • Hardware version number • Firmware version number 	<p>For each FIPS-approved HSM used in the solution, describe how the HSM device configurations observed verified that all of the device characteristics at 5A-1.1.1.b match the FIPS140-2 Level 3 (or higher) approval listing:</p> <p style="text-align: center;"><Report Findings Here></p>	
<p>5A-1.1.1.c If the solution provider has applied a vendor security patch that resulted in an updated HSM firmware version, and the PCI SSC or NIST validation of that updated firmware version has not yet been completed, obtain the vendor documentation and verify it includes confirmation that the update has been submitted for evaluation per the process specified by PCI SSC or NIST (as applicable to the HSM).</p>	Vendor documentation reviewed:	<Report Findings Here>
<p>5A-1.1.2 If FIPS-approved HSMs are used, the HSM must use the FIPS-approved cryptographic primitives, data-protection mechanisms, and key-management processes for account data decryption and related processes.</p> <p>Note: <i>Solution providers operating HSMs in non-FIPS mode or adding non-FIPS validated software must complete a written confirmation that includes the following:</i></p> <ul style="list-style-type: none"> • <i>Description of why the HSM is operated in non-FIPS mode</i> • <i>Purpose and description of any non-FIPS validated software added to the HSM</i> • <i>A statement that nothing has been changed on, or added to, the HSM that impacts the security of the HSM, cryptographic key-management processes, or P2PE requirements</i> <p><i>Note that adding any software may invalidate the FIPS approval.</i></p>		
<p>5A-1.1.2.a Examine FIPS approval documentation (security policy) and HSM operational procedures to verify that the FIPS approval covers the cryptographic primitives, data-protection mechanisms, and key-management used for account data decryption and related processes.</p>	FIPS approval documentation reviewed:	<Report Findings Here>
	HSM operational procedures reviewed:	<Report Findings Here>
<p>5A-1.1.2.b If the HSM is operated in non-FIPS mode or non-FIPS validated software has been added to the HSM, review the solution provider's written confirmation and confirm that it includes the following:</p> <ul style="list-style-type: none"> • Description of why the HSM is operated in non-FIPS mode • Purpose and description of any non-FIPs validated software added to the HSM • A statement that nothing has been changed on, or added to, the HSM that impacts the security of the HSM, cryptographic key-management processes, or P2PE requirements. 	Solution provider's written confirmation reviewed:	<Report Findings Here>

Domain 5: Decryption Environment – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>5A-1.1.3 If PCI PTS-approved HSMs are used, the HSM must be configured to operate in accordance with the security policy that was included in the PTS HSM approval, for all P2PE operations (including algorithms, data protection, key management, etc.). Note: PCI HSMs require that the decryption-device manufacturer make available a security policy document to end users, providing information on how the device must be installed, maintained, and configured to meet the compliance requirements under which it was approved.</p>		
<p>5A-1.1.3 Examine HSM configurations for all P2PE solution functions to verify that HSMs are configured to operate according to the security policy that was included as part of the PTS approval.</p>	<p>Describe how HSM configurations for all P2PE security functions verified that HSMs are configured to operate according to the security policy that was included as part of the PTS approval:</p>	
	<p><Report Findings Here></p>	
<p>5B-1.1 Current documentation must be maintained that describes or illustrates the configuration of the decryption environment, including the flow of data and interconnectivity between incoming transaction data from POI devices, all systems within the decryption environment, and any outbound connections.</p>		
<p>5B-1.1.a Interview responsible personnel and review documentation to verify that a procedure exists to maintain a document that describes/illustrates the configuration of the decryption environment, including the flow of data and interconnectivity between incoming transaction data from POI devices, all systems within the decryption environment, and any outbound connections.</p>	<p>Responsible personnel interviewed:</p>	<p><Report Findings Here></p>
	<p>Documented procedure reviewed:</p>	<p><Report Findings Here></p>
<p>5B-1.1.b Interview responsible personnel and review solution-provider documentation that describes/illustrates the configuration of the decryption environment, including the flow of data and interconnectivity between incoming transaction data from POI devices, all systems within the decryption environment, and any outbound connections.</p>	<p>Responsible personnel interviewed:</p>	<p><Report Findings Here></p>
	<p>Solution-provider documentation reviewed:</p>	<p><Report Findings Here></p>
<p>5B-1.1.c Review the solution-provider documentation that describes/illustrates the configuration of the of the decryption environment, including the flow of data and interconnectivity between incoming transaction data from POI devices, all systems within the decryption environment, and any outbound connections.</p>	<p>Solution-provider documentation reviewed:</p>	<p><Report Findings Here></p>
<p>5B-1.2 Procedures must be implemented to provide secure administration of decryption devices by authorized personnel, including but not limited to:</p> <ul style="list-style-type: none"> • Assigning administrative roles and responsibilities only to specific, authorized personnel • Management of user interface • Password/smart card management • Console and non-console administration • Access to physical keys • Use of HSM commands 		

Domain 5: Decryption Environment – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
5B-1.2.a Examine documented procedures to verify secure administration by authorized personnel is defined for decryption devices including: <ul style="list-style-type: none"> • Assigning administrative roles and responsibilities only to specific, authorized personnel • Management of user interface • Password/smart card management • Console/remote administration • Access to physical keys • Use of HSM commands 	Documented procedures reviewed:	<Report Findings Here>
	5B-1.2.b Observe authorized personnel performing device-administration operations to verify secure administration procedures are implemented for the following: <ul style="list-style-type: none"> • Management of user interface • Password/smart card management • Console/remote administration • Access to physical keys • Use of HSM commands 	
5B-1.2.c Observe personnel performing decryption-device administration and examine files/records that assign administrative roles and responsibilities to verify that only authorized and assigned personnel perform decryption-device administration operations.	Describe how the observation verified that secure administration procedures are implemented for the following: <ul style="list-style-type: none"> • Management of user interface • Password/smart card management • Console/remote administration • Access to physical keys • Use of HSM commands 	<Report Findings Here>
	Files/records examined:	<Report Findings Here>
	Describe how the observation verified that only authorized and assigned personnel perform decryption-device administration operations:	<Report Findings Here>
5B-1.3 Only authorized users/processes have the ability to make function calls to the HSM—e.g., via the HSM's application program interfaces (APIs). <i>For example, require authentication for use of the HSMs APIs and secure all authentication credentials from unauthorized access. Where an HSM is unable to authenticate use of the API, limit the exposure of the HSM to a trusted host via a dedicated physical link that authorizes access on behalf of the HSM over the trusted channel (e.g., high-speed serial or dedicated Ethernet).</i>		
5B-1.3.a Examine documented procedures and processes to verify that only authorized users/processes have the ability to make functions calls to the HSM—e.g., via the HSM's application program interfaces (APIs).	Documented procedures and processes reviewed:	<Report Findings Here>
	5B-1.3.b Interview responsible personnel and observe HSM system configurations and processes to verify that only authorized users/processes have the ability to make function calls to the HSM (e.g., via the HSM's application program interfaces (APIs)).	Responsible personnel interviewed:
Describe how the observed HSM configurations and processes verified that only authorized users/processes have the ability to make function calls to the HSM:		<Report Findings Here>

Domain 5: Decryption Environment – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
5B-1.4 POI devices must be authenticated upon connection to the decryption environment and upon request by the solution provider. Note: <i>This authentication can occur via use of cryptographic keys or certificates, uniquely associated with each POI device and decryption system.</i>		
5B-1.4.a Examine documented policies and procedures to verify they require POI devices be authenticated upon connection to the decryption environment and upon request by the solution provider.	Documented policies and procedures reviewed:	<Report Findings Here>
5B-1.4.b Verify documented procedures are defined for the following: <ul style="list-style-type: none"> • Procedures and/or mechanisms for authenticating POI devices upon connection to the decryption environment • Procedures and/or mechanisms for authenticating POI devices upon request by the solution provider 	Documented policies and procedures reviewed:	<Report Findings Here>
5B-1.4.c Interview responsible personnel and observe a sample of device authentications to verify the following: <ul style="list-style-type: none"> • POI devices are authenticated upon connection to the decryption environment. • POI devices are authenticated upon request by the solution provider. 	Responsible personnel interviewed:	<Report Findings Here>
	Describe how sample device authentications verified that POI devices are authenticated upon connection to the decryption environment and upon request by the solution provider:	
	<Report Findings Here>	
5B-1.5 Physical inspections of decryption devices by authorized personnel must be performed at least quarterly to detect tampering or modification of devices. Inspections to include: <ul style="list-style-type: none"> • The device itself • Cabling/connection points • Physically connected devices 		
5B-1.5.a Examine documented procedure to verify that physical inspection of devices is required at least quarterly to detect signs of tampering or modification, and that inspection procedures include: <ul style="list-style-type: none"> • The device itself • Cabling/connection points • Physically connected devices 	Documented procedures reviewed:	<Report Findings Here>
5B-1.5.b Interview personnel performing physical inspections and observe inspection processes to verify that inspections include: <ul style="list-style-type: none"> • The device itself • Cabling/connection points • Physically connected devices 	Personnel interviewed:	<Report Findings Here>
	Describe how the inspection processes observed verified that inspections include the device itself, cabling/connection points and physically connected devices:	
	<Report Findings Here>	
5B-1.5.c Interview personnel performing inspections and review supporting documentation to verify that physical inspections are performed at least quarterly.	Personnel performing inspections interviewed:	<Report Findings Here>
	Supporting documentation reviewed:	<Report Findings Here>

Domain 5: Decryption Environment – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>5B-1.6 Decryption environment must be secured according to PCI DSS. Note: For merchant-managed solutions, PCI DSS validation of the decryption environment is managed by the merchant in accordance with their acquirer and/or payment brand. This requirement is therefore not applicable to P2PE assessments where merchants are the P2PE solution provider. Note: The QSA (P2PE) should NOT challenge or re-evaluate the PCI DSS environment (or its compliance) where a completed and current ROC exists.</p>		
<p>5B-1.6.a Review the “Description of Scope of Work and Approach Taken” section of the solution provider’s current PCI DSS Report on Compliance (ROC) to verify the PCI DSS assessment scope fully covers the P2PE decryption environment.</p>	<p>PCI DSS Report on Compliance (ROC) reviewed:</p>	<p><Report Findings Here></p>
<p>5B-1.6.b Review PCI DSS ROC and/or Attestation of Compliance (AOC) to verify that all applicable PCI DSS requirements are “in place” for the P2PE decryption environment.</p>	<p>PCI DSS Report on Compliance (ROC) and/or Attestation of Compliance (AOC) reviewed:</p>	<p><Report Findings Here></p>
<p>5B-1.6.c Review PCI DSS ROC and/or Attestation of Compliance (AOC) to verify that the PCI DSS assessment of the P2PE decryption environment was:</p> <ul style="list-style-type: none"> • Performed by a QSA • Performed within the previous 12 months 	<p>PCI DSS Report on Compliance (ROC) and/or Attestation of Compliance (AOC) reviewed:</p>	<p><Report Findings Here></p>
<p>5B-1.7 Processes are implemented to ensure that clear-text account data is never sent back to the encryption environment. Note: Output of clear-text data that is verified as being unrelated to any of the PCI payment brands is acceptable. The security of this process when it occurs from the decryption environment is assessed at Requirement 5B-1.9</p>		
<p>5B-1.7.a Review documented processes and interview personnel to confirm that clear-text account data is never sent back to the encryption environment.</p>	<p>Documented processes reviewed:</p>	<p><Report Findings Here></p>
	<p>Personnel interviewed:</p>	<p><Report Findings Here></p>
<p>5B-1.7.b Observe process flows and data flows to verify that there is no process, application, or other mechanism that sends clear-text account data back into the encryption environment.</p>	<p>Describe how process flows and data flows verified that there is no process, application, or other mechanism that sends clear-text account data back into the encryption environment:</p> <p><Report Findings Here></p>	
<p>5B-1.8 Any truncated PANs sent back to the encryption environment must adhere to the allowable number of digits as specified in PCI DSS and/or related FAQs that specify allowable digits.</p>		
<p>5B-1.8.a Review documented processes and interview personnel to confirm that any truncated PANs sent back to the encryption environment adhere to the allowable number of digits as specified in PCI DSS and/or related FAQs</p>	<p>Documented processes reviewed:</p>	<p><Report Findings Here></p>
	<p>Personnel interviewed:</p>	<p><Report Findings Here></p>
<p>5B-1.8.b Observe process flows and data flows to verify that there is no process, application, or other mechanism that sends more digits of truncated PANs back to the encryption environment than is specified in PCI DSS and/or related FAQs.</p>	<p>Describe how process flows and data flows verified that there is no process, application, or other mechanism that sends more digits of truncated PANs back to the encryption environment than is specified in PCI DSS and/or related FAQs:</p> <p><Report Findings Here></p>	

Domain 5: Decryption Environment – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>5B-1.9 Any whitelisting functionality implemented in the decryption environment that transmits data to the encryption environment must ensure that the ONLY allowed output of clear-text account data is for non-PCI payment brand account/card data, and includes the following:</p> <ul style="list-style-type: none"> • Cryptographic signing (or similar) prior to installation by authorized personnel using dual control. • Cryptographic authentication by the HSM • Review of whitelist functionality to confirm it only outputs non-PCI payment brand account/card data. • Approval of functionality by authorized personnel prior to implementation • Documentation for all new installations or updates to whitelist functionality that includes the following: <ul style="list-style-type: none"> ○ Description and justification for the functionality ○ Who approved the new installation or updated functionality prior to release ○ Confirmation that it was reviewed prior to release to only output non-PCI payment brand account/card data 		
<p>5B-1.9 Review documented policies and procedures to verify that that any whitelisting functionality implemented in the decryption environment that transmits data to the encryption environment ensures the that the ONLY allowed output of clear-text account data is for non-PCI payment brand account/card data, and includes the following:</p> <ul style="list-style-type: none"> • Cryptographic signing (or similar) prior to installation by authorized personnel using dual control. • Cryptographic authentication by the HSM • Review of whitelist functionality to confirm it only outputs non-PCI payment brand account/card data. • Approval of functionality by authorized personnel prior to implementation • Documentation for all new installations or updates to whitelist functionality that includes the following: <ul style="list-style-type: none"> ○ Description and justification for the functionality ○ Who approved the new installation or updated functionality prior to release ○ Confirmation that it was reviewed prior to release to only output non-PCI payment brand account/card data 	<p>Documented policies and procedures reviewed:</p>	<p><Report Findings Here></p>
<p>5B-1.9.1 Any whitelisting functionality implemented in the decryption environment that transmits data to the encryption environment must allow ONLY the output of clear-text account data for non-PCI payment brand account/card data.</p>		
<p>5B-1.9.1.a Observe application and system configurations and interview personnel to verify that whitelisting functionality implemented in the decryption environment that transmits data to the encryption environment only allows the output of clear-text account data for non-PCI payment brand account/card data.</p>	<p>Personnel interviewed</p>	<p><Report Findings Here></p>
	<p>Describe how application and system configurations observed verified that whitelisting functionality implemented in the decryption environment that transmits data to the encryption environment only allows the output of clear-text account data for non-PCI payment brand account/card data:</p>	
	<p><Report Findings Here></p>	

Domain 5: Decryption Environment – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
5B-1.9.1.b Perform test transactions to verify that any whitelisting functionality implemented in the decryption environment that transmits data to the encryption environment only allows output clear-text account for non-PCI payment brand account/card data.	Describe how test transactions verified that any whitelisting functionality implemented in the decryption environment that transmits data to the encryption environment only allows output clear-text account for non-PCI payment brand account/card data:	
	<Report Findings Here>	
5B-1.9.2 Any new installations of, or updates to, whitelisting functionality implemented in the decryption environment that transmits data to the encryption environment must be: <ul style="list-style-type: none"> • Cryptographically signed (or similar) prior to installation only by authorized personnel using dual control • Cryptographically authenticated by the HSM 		
5B-1.9.2 Observe the process for new installations or updates to whitelisting functionality and interview personnel to verify that additions or updates to whitelisting functionality implemented in the decryption environment that transmits data to the encryption environment are performed as follows: <ul style="list-style-type: none"> • Cryptographically signed (or similar) prior to installation only by authorized personnel using dual control • Cryptographically authenticated by the HSM 	Personnel interviewed:	<Report Findings Here>
	Describe how the observed process verified that additions or updates to whitelisting functionality implemented in the decryption environment that transmits data to the encryption environment are performed as follows: <ul style="list-style-type: none"> • Cryptographically signed (or similar) prior to installation only by authorized personnel using dual control • Cryptographically authenticated by the HSM 	
	<Report Findings Here>	
5B-1.9.3 Any new installations of, or updates to, whitelisting functionality implemented in the decryption environment that transmits data to the encryption environment must follow change-control procedures that include: <ul style="list-style-type: none"> • Coverage for both new installations and updates to such functionality • Description and justification for the functionality • Who approved the new installation or update prior to release • Confirmation that it was reviewed prior to release to only output non-PCI payment account/card data. 		
5B-1.9.3 Review records of both new and updated whitelisting functionality implemented in the decryption environment that transmits data to the encryption environment, and confirm the following: <ul style="list-style-type: none"> • Both new installations and updates to whitelisting functionality are documented. • The documentation includes description and justification. • The documentation includes who approved it prior to implementation. • The documentation includes confirmation that it was reviewed prior to release to only output non-PCI payment account/card data. 	Records of new whitelisting functionality reviewed:	<Report Findings Here>
	Records of updated whitelisting functionality reviewed:	<Report Findings Here>
5C-1.1 Changes to the critical functions of the decryption devices must be logged. Note: Critical functions include but are not limited to application and firmware updates, key-injection, as well as changes to security-sensitive configurations.		

Domain 5: Decryption Environment – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
5C-1.1 Examine system configurations and correlating log files to verify that any changes to the critical functions of decryption devices are logged, including: <ul style="list-style-type: none"> • Changes to the applications • Changes to the firmware • Changes to any security-sensitive configurations 	Describe how system configurations and correlating log files verified that any changes to the critical functions of decryption devices are logged, including: <ul style="list-style-type: none"> • Changes to the applications • Changes to the firmware • Changes to any security-sensitive configurations 	
	<Report Findings Here>	
5C-1.2 Mechanisms must be implemented to detect and respond to suspicious activity, including but not limited to: <ul style="list-style-type: none"> • Physical breach • Tampered, missing, or substituted devices • Unauthorized logical alterations (e.g., configurations, access controls) • Unauthorized use of sensitive functions (e.g., key-management functions) • Disconnect/reconnect of devices • Failure of any device security control • Encryption/decryption failures • Unauthorized use of the HSM API 		
5C-1.2.a Examine documented procedures to verify mechanisms are defined to detect and respond to potential security incidents, including: <ul style="list-style-type: none"> • Physical breach • Tampered, missing, or substituted devices • Unauthorized logical alterations (e.g., configurations, access controls) • Unauthorized use of sensitive functions (e.g., key-management functions) • Disconnect/reconnect of devices • Failure of any device security control • Encryption/decryption failures • Unauthorized use of the HSM API 	Documented procedures reviewed:	<Report Findings Here>
	<Report Findings Here>	
5C-1.2.b Interview personnel and observe implemented mechanisms to verify mechanisms are implemented to detect and respond to suspicious activity, including: <ul style="list-style-type: none"> • Physical breach • Tampered, missing, or substituted devices • Unauthorized logical alterations (configuration, access controls) • Unauthorized use of sensitive functions (e.g., key management functions) • Disconnect/reconnect of devices • Failure of any device security control • Encryption/decryption failures • Unauthorized use of the HSM API 	Personnel interviewed:	<Report Findings Here>
	Describe the implemented mechanisms that were observed to be implemented to detect and respond to suspicious activity:	
	<Report Findings Here>	

Domain 5: Decryption Environment – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
5C-1.3 Mechanisms must be implemented to detect encryption failures, including at least the following: Note: <i>Although Domain 5 is concerned with the decryption environment, not the encryption environment, all traffic received into the decryption environment must be actively monitored to confirm that the POI devices in the merchant’s encryption environment is not outputting clear-text account data through some error or misconfiguration.</i>		
5C-1.3 Examine documented procedures to verify controls are defined for the following: <ul style="list-style-type: none"> Procedures are defined to detect encryption failures, and include 5C-1.3.1 through 5C-1.3.4 below. Procedures include immediate notification upon detection of a cryptographic failure, for each 5C-1.3.1 through 5C-1.3.4 below. 	Documented procedures reviewed:	<Report Findings Here>
5C-1.3.1 Checking for incoming clear-text account data.		
5C-1.3.1.a Observe implemented processes to verify controls are in place to check for incoming clear-text account data.	Describe how the implemented processes observed verified that controls are in place to check for incoming clear-text account data:	
	<Report Findings Here>	
5C-1.3.1.b Observe implemented controls and notification mechanisms to verify mechanisms detect and provide immediate notification upon detection of incoming clear-text account data.	Describe the implemented controls and notification mechanisms observed that detect and provide immediate notification upon detection of incoming clear-text account data:	
	<Report Findings Here>	
5C-1.3.1.c Interview personnel to verify that designated personnel are immediately notified upon detection of incoming clear-text account data.	Personnel interviewed:	<Report Findings Here>
5C-1.3.2 Detecting and reviewing any cryptographic errors reported by the HSM		
5C-1.3.2.a Observe implemented processes to verify controls are in place to detect and review any cryptographic errors reported by the HSM.	Describe how the implemented processes observed verified that controls are in place to detect and review and cryptographic errors reported by the HSM:	
	<Report Findings Here>	
5C-1.3.2.b Observe implemented controls and notification mechanisms to verify that mechanisms detect and provide immediate notification of cryptographic errors reported by the HSM.	Describe the implemented controls and notification mechanisms observed that detect and provide immediate notification of cryptographic errors reported by the HSM:	
	<Report Findings Here>	
5C-1.3.2.c Interview personnel to verify that designated personnel are immediately notified upon detection of cryptographic errors reported by the HSM.	Personnel interviewed:	<Report Findings Here>
5C-1.3.3 Detecting and reviewing any unexpected transaction data received. <i>For example, transaction data received without an expected authentication data block (such as a MAC or signature, or a malformed message).</i>		

Domain 5: Decryption Environment – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings
5C-1.3.3.a Observe implemented processes to verify controls are in place to detect and review any unexpected transaction data received.	Describe how the implemented processes observed verified that controls are in place to detect and review and unexpected transaction data received: <Report Findings Here>
5C-1.3.3.b Observe implemented controls and notification mechanisms to verify that mechanisms detect and provide immediate notification for any unexpected transaction data received.	Describe the implemented controls and notification mechanisms observed that detect and provide immediate notification for any unexpected transaction data received: <Report Findings Here>
5C-1.3.3.c Interview personnel to verify that designated personnel are immediately notified upon detection of any unexpected transaction data received.	Personnel interviewed: <Report Findings Here>
5C-1.3.4 Reviewing data sent by any POI devices that are causing an unusually high rate of transaction authorization rejections.	
5C-1.3.4.a Observe implemented processes to verify controls are in place to review data sent by any POI devices that are causing an unusually high rate of transaction authorization rejections.	Describe how the implemented processes observed verified that controls are in place to review data sent by any POI devices that are causing an unusually high rate of transaction authorization rejections: <Report Findings Here>
5C-1.3.4.b Observe implemented controls and notification mechanisms to verify that mechanisms detect and provide immediate notification upon detection of POI devices that are causing an unusually high rate of transaction authorization rejections.	Describe the implemented controls and notification mechanisms observed that detect and provide immediate notification upon detection of POI devices that are causing an unusually high rate of transaction authorization rejections: <Report Findings Here>
5C-1.3.4.c Interview personnel to verify that designated personnel are immediately notified upon detection of POI devices that are causing an unusually high rate of transaction authorization rejections.	Personnel interviewed: <Report Findings Here>
5C-1.4 All suspicious activity must be identified and a record maintained, to include at least the following: <ul style="list-style-type: none"> • Identification of affected device(s), including make, model, and serial number • Identification of affected merchant, including specific sites/locations if applicable • Date/time of incident • Duration of device downtime • Date/time the issue was resolved • Details of whether any account data was transmitted from the POI device during any identified time that encryption was malfunctioning or disabled 	

Domain 5: Decryption Environment – Reporting

Requirements and Testing Procedures		Reporting Instructions and Assessor’s Findings	
<p>5C-1.4.a Examine documented procedures to verify they include procedures for identifying the source and maintaining a record, of all suspicious activity, to include at least the following:</p> <ul style="list-style-type: none"> • Identification of affected device(s), including make, model, and serial number • Identification of affected merchant, including specific sites/locations if applicable • Date/time of incident • Duration of device downtime • Date/time the issue was resolved • Details of whether any account data was transmitted from the POI device during the time that encryption was malfunctioning or disabled 	Documented procedures reviewed:	<Report Findings Here>	
	<p>5C-1.4.b Observe implemented controls and interview responsible personnel to verify that the source of any suspicious activity is identified, and records are maintained to include the following:</p> <ul style="list-style-type: none"> • Identification of affected device(s), including make, model, and serial number • Identification of affected merchant, including specific sites/locations if applicable • Date/time of incident • Duration of device downtime • Date/time the issue was resolved • Details of whether any account data was transmitted from the POI device during the time that encryption was malfunctioning or disabled 	Responsible personnel interviewed:	<Report Findings Here>
		<p>Describe how the implemented controls verified that the source of any suspicious activity is identified, and records are maintained to include the following:</p> <ul style="list-style-type: none"> • Identification of affected device(s), including make, model, and serial number • Identification of affected merchant, including specific sites/locations if applicable • Date/time of incident • Duration of device downtime • Date/time the issue was resolved • Details of whether any account data was transmitted from the POI device during the time that encryption was malfunctioning or disabled 	
		<Report Findings Here>	
<p>5C-1.5 Implement mechanisms to provide immediate notification of suspicious activity to applicable parties, including merchants, processors, acquirers, and any P2PE solution providers (if decryption services are being performed on behalf of other P2PE solution providers).</p>			
<p>5C-1.5.a Examine documented procedures to verify mechanisms are defined to provide immediate notification of suspicious activity to applicable parties, including merchants, processors, acquirers, and any P2PE solution providers (if decryption services are being performed on behalf of other P2PE solution providers).</p>	Documented procedures reviewed:	<Report Findings Here>	

Domain 5: Decryption Environment – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
5C-1.5.b Interview personnel and observe implemented mechanisms to verify that immediate notification of suspicious activity is provided to applicable parties, including merchants, processors, acquirers, and any P2PE solution providers (if decryption services are being performed on behalf of other P2PE solution providers).	Personnel interviewed:	<Report Findings Here>
	Describe how the implemented mechanisms observed verified that immediate notification of suspicious activity is provided to applicable parties, including merchants, processors, acquirers, and any P2PE solution providers (if decryption services are being performed on behalf of other P2PE solution providers):	
	<Report Findings Here>	
5D-1.1 The solution provider must maintain current documentation that describes, or illustrates, the configuration of the Host System, including the flow of data and interconnectivity between all systems within the decryption environment.		
5D-1.1.a Interview responsible personnel and review documentation to verify that a procedure exists to maintain a document that describes/illustrates the configuration of the Host System, including the flow of data and interconnectivity between all systems within the decryption environment.	Responsible personnel interviewed:	<Report Findings Here>
	Documented procedure reviewed:	<Report Findings Here>
5D-1.1.b Interview responsible personnel and review solution provider documentation that describes/illustrates the configuration of the Host System, including the flow of data and interconnectivity between all systems within that environment, to verify that the document is current.	Responsible personnel interviewed:	<Report Findings Here>
	Solution provider documentation reviewed:	<Report Findings Here>
5D-1.1.c Review the solution provider documentation that describes/illustrates the configuration of the Host System, including the flow of data and interconnectivity between all systems, to verify that it accurately represents the decryption environment.	Solution provider documentation reviewed:	<Report Findings Here>
5D-1.2 The Host System must be isolated, or dedicated, to transaction processing, with only necessary services, protocols, daemons etc. enabled: <ul style="list-style-type: none"> • The necessary services, protocols, daemons etc. must be documented and justified, including description of the enabled security features for these services etc. • Functions not related to transaction processing must be disabled, or isolated (e.g., using logical partitions), from transaction processing. Note: "Isolated" means that the Host System must not be accessed, modified or intercepted by other processes.		
5D-1.2.a Inspect network and system configuration settings to verify the host processing system is isolated, or dedicated, to transaction processing, with only necessary services, protocols, daemons etc. enabled.	Describe how network and system configuration settings verified that the host processing system is isolated, or dedicated, to transaction processing, with only necessary services, protocols, daemons etc. enabled:	
	<Report Findings Here>	
5D-1.2.b Review the documented record of services, protocols, daemons etc. that are required by the Host System and verify that each service includes justification and a description of the enabled security feature.	Documented record of services, protocols, daemons required by the Host System reviewed:	<Report Findings Here>
5D-1.3 The Host System and HSM must reside on a network that is dedicated to decryption operations and transaction processing and must be segmented from any other network, or system, that is not performing or supporting decryption operations or transaction processing.		

Domain 5: Decryption Environment – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
5D-1.3.a Examine network diagram(s) to verify the Host System(s) and HSM(s) are located on a network that is segmented from other networks that are not required for decryption operations or transaction processing.	Network diagram(s) reviewed:	<Report Findings Here>
5D-1.3.b Inspect network and system configurations to verify the Host System(s) and HSM(s) are located on a network that is segmented from other networks not required for decryption operations or transaction processing.	Describe how network and system configuration settings verified that the Host System(s) and HSM(s) are located on a network that is segmented from other networks not required for decryption operations or transaction processing: <Report Findings Here>	
5D-1.4 All application software installed on the Host System must be authorized and have a business justification.		
5D-1.4.a Examine documented policies and procedures to verify that all application software installed on the Host System must have a business justification and be duly authorized.	Documented policies and procedures reviewed:	<Report Findings Here>
5D-1.4.b Examine change control and system configuration records to verify that all application software installed on the Host System is authorized.	Change control and system configuration records reviewed:	<Report Findings Here>
5D-1.4.c Inspect Host System and compare with system configuration standards to verify that all software installed on the Host System has a defined business justification.	Describe how the Host System and system configuration standards verified that all software installed on the Host System has a defined business justification: <Report Findings Here>	
5D-1.5 A process, either automated or manual, must be in place to prevent and/or detect and alert, any unauthorized changes to applications/software on the Host System.		
5D-1.5.a Examine documented policies and procedures to verify that a process is defined to prevent and/or detect and alert, any unauthorized changes to applications/software.	Documented policies and procedures reviewed:	<Report Findings Here>
5D-1.5.b Interview personnel and observe system configurations to verify that controls are implemented to prevent and/or detect and alert personnel, upon any unauthorized changes to applications/software.	Personnel interviewed:	<Report Findings Here>
	Describe how the system configurations observed verified that controls are implemented to prevent and/or detect and alert personnel, upon any unauthorized changes to applications/software: <Report Findings Here>	
5D-1.5.c Examine output from the implemented process to verify that any unauthorized changes to applications/software are either prevented or detected with an alert generated that is immediately investigated.	Describe how the output from the implemented process verified that any unauthorized changes to applications/software are either prevented or detected with an alert generated that is immediately investigated:	
	<Report Findings Here>	
5D-1.6 The Host System must perform a self-test when it is powered up to ensure its integrity before use. The self-test must include:		
<ul style="list-style-type: none"> • Testing integrity of cryptographic functions. • Testing integrity of firmware. • Testing integrity of any security functions critical to the secure operation of the Host System. 		

Domain 5: Decryption Environment – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
5D-1.6.a Inspect Host System configuration settings, and examine vendor/solution provider documentation to verify that the Host System performs a self-test when it is powered up to ensure its integrity before use. Verify the self-test includes the following: <ul style="list-style-type: none"> • Testing integrity of cryptographic functions. • Testing integrity of software/firmware. • Testing integrity of any security functions critical to the secure operation of the Host System. 	Vendor/solution provider documentation reviewed:	<Report Findings Here>
	Describe how Host System configuration settings and vendor/solution provider documentation verified that the Host System performs a self-test when it is powered up to ensure its integrity before use, and that the self-test includes the following: <ul style="list-style-type: none"> • Testing integrity of cryptographic functions. • Testing integrity of software/firmware. • Testing integrity of any security functions critical to the secure operation of the Host System. 	
	<Report Findings Here>	
5D-1.6.b Review logs/audit trails from when the Host System has previously been powered-up and interview personnel, to verify that the Host System performs a self-test to ensure its integrity before use. Verify the self-tests included the tests described in 5D-1.6.a.	Personnel interviewed:	<Report Findings Here>
	Describe how logs/audit trails verified that the Host System performs a self-test to ensure its integrity before use and that the self-tests included the tests described in 5D-1.6.a:	
	<Report Findings Here>	
5D-1.7 The Host System must perform a self-test when a security-impacting function or operation is modified (e.g., an integrity check of the software/firmware must be performed upon loading of a software/firmware update).		
5D-1.7.a Inspect Host System configuration settings and examine vendor/solution provider documentation to verify that the Host system performs a self-test when a security-impacting function or operation is modified.	Vendor/solution provider documentation reviewed:	<Report Findings Here>
	Describe how Host System configuration settings and vendor/solution provider documentation verified that the Host system performs a self-test when a security-impacting function or operation is modified:	
	<Report Findings Here>	
5D-1.7.b Interview personnel and examine logs/records for when a security-impacting function, or operation, has been modified to verify that the Host System performs a self-test.	Personnel interviewed:	<Report Findings Here>
	Describe how logs/records verified that the Host System performs a self-test when a security-impacting function or operation is modified:	
	<Report Findings Here>	
5D-1.8 The Host System must enter an error state and generate an alert upon any of the following events: <ul style="list-style-type: none"> • Failure of a cryptographic operation • Failure of a system self-test, as described in Requirements 5D-1.6 and 5D-1.7 • Failure of a security function or mechanism <p>Note: An “error state” identifies the Host System has encountered an issue that requires a response action. To prevent potential damage or compromise, the system must cease cryptographic operations until the issue is resolved and the host is returned to a normal processing state.</p>		

Domain 5: Decryption Environment – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
5D-1.8.a Inspect Host System configuration settings and examine vendor/solution provider documentation to verify that the host enters an error state and generates an alert in the event of the following: <ul style="list-style-type: none"> • Failure of a cryptographic operation • Failure of a system self-test, as described in Requirements 5D-1.6 and 5D-1.7 • Failure of a security function or mechanism 	Vendor/solution provider documentation reviewed:	<Report Findings Here>
	Describe how Host System configuration settings and vendor/solution provider documentation verified that the host enters an error state and generates an alert in the event of the following: <ul style="list-style-type: none"> • Failure of a cryptographic operation • Failure of a system self-test, as described in Requirements 5D-1.6 and 5D-1.7 • Failure of a security function or mechanism 	
	<Report Findings Here>	
5D-1.8.b Interview personnel and examine logs/records of actual or test alerts to verify that alerts are generated and received when the Host System enters an error state under one of the following conditions: <ul style="list-style-type: none"> • Failure of a cryptographic operation • Failure of a system self-test, as described in Requirements 5D-1.6 and 5D-1.7 • Failure of a security function or mechanism 	Personnel interviewed:	<Report Findings Here>
	Logs/records of actual or test alerts examined:	<Report Findings Here>
5D-1.9 Alerts generated from the Host System must be documented and result in notification to authorized personnel and initiate a response procedure.		
5D-1.9.a Review documented procedures to verify alerts generated from the Host System must be documented and result in notification to authorized personnel and initiate a response procedure.	Documented procedures reviewed:	<Report Findings Here>
	5D-1.9.b Examine system configurations and records of documented alert events to verify alerts generated from the Host System are documented.	
	Records of documented alert events reviewed:	<Report Findings Here>
	Describe how system configurations and records of documented alert events verified that alerts generated from the Host System are documented:	
	<Report Findings Here>	
5D-1.9.c Examine a sample of documented alert events and interview personnel assigned with security-response duties to verify alerts initiate a response procedure.	Sample of documented alert events examined:	<Report Findings Here>
	Personnel assigned with security-response duties interviewed:	<Report Findings Here>
5D-1.10 The Host System must not perform any cryptographic operations under any of the following conditions: <ul style="list-style-type: none"> • While in an error state, as described in Requirement 5D-1.8 • During self-tests, as described in Requirements 5D-1.6 and 5D-1.7 • During diagnostics of cryptographic operations. 		

Domain 5: Decryption Environment – Reporting			
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings		
5D-1.10.a Examine documented procedures to verify that controls/processes are in place to ensure that the Host System does not perform any cryptographic operations: <ul style="list-style-type: none"> • While in an error state, as described in Requirement 5D-1.8 • During self-tests, as described in Requirements 5D-1.6 and 5D-1.7. • During diagnostics of cryptographic operations. 	Documented procedures reviewed:	<Report Findings Here>	
	5D-1.10.b Inspect Host System configuration settings and interview personnel to verify that controls and/or procedures are in place to ensure that the Host System does not perform any cryptographic operations: <ul style="list-style-type: none"> • While in an error state, as described in Requirement 5D-1.8 • During self-tests, as described in Requirements 5D-1.6 and 5D-1.7. • During diagnostics of cryptographic operations. 		
		Personnel interviewed:	<Report Findings Here>
		Describe how Host System configuration settings verified that controls and/or procedures are in place to ensure that the Host System does not perform any cryptographic operations: <ul style="list-style-type: none"> • While in an error state, as described in Requirement 5D-1.8 • During self-tests, as described in Requirements 5D-1.6 and 5D-1.7. • During diagnostics of cryptographic operations 	
		<Report Findings Here>	
5D-1.11 All source code and executable code for cryptographic software and firmware on the Host System must be protected from unauthorized disclosure and unauthorized modification.			
5D-1.11.a Inspect configuration documentation to verify that access controls are defined to ensure all source code and executable code for cryptographic software and firmware is protected from unauthorized disclosure and unauthorized modification.	Configuration documentation inspected:	<Report Findings Here>	
	5D-1.11.b Observe access controls for cryptographic software and firmware to verify that all source code and executable code is protected from unauthorized disclosure and unauthorized modification.		
		Describe how the access controls for cryptographic software and firmware observed verified that all source code and executable code is protected from unauthorized disclosure and unauthorized modification:	
		<Report Findings Here>	
5D-1.12 The clear-text data-decryption keys must not be accessible to any processes or functions not directly required for decryption operations.			
5D-1.12.a Review solution provider documentation, including data flow diagrams, to verify that clear-text decryption keys are not accessible to any processes or functions not directly required for decryption operations.	Solution provider documentation reviewed (including data flow diagrams):	<Report Findings Here>	
	5D-1.12.b Inspect Host System configurations and access controls and to verify that clear-text decryption keys are not accessible to any processes or functions not directly required for decryption operations.		
		Describe how the Host System configurations and access controls inspected verified that clear-text decryption keys are not accessible to any processes or functions not directly required for decryption operations:	
		<Report Findings Here>	
5D-1.13 The clear-text data-decryption keys must only be accessible to authorized personnel with a defined job-related need to access the keys			

Domain 5: Decryption Environment – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
5D-1.13.a Examine documented key-management policies and procedures to verify clear-text data-decryption keys must only be accessible to authorized personnel with a defined job-related need to access the keys.	Documented key-management policies and procedures reviewed:	<Report Findings Here>
5D-1.13.b Inspect Host System configuration settings and verify that clear-text data-decryption keys are only accessible to authorized personnel with a defined job-related need to access the keys.	Describe how the Host System configuration settings inspected verified that clear-text data-decryption keys are only accessible to authorized personnel with a defined job-related need to access the keys: <Report Findings Here>	
5D-1.14 The Host System must not write clear-text cryptographic keys to persistent storage (e.g., hard drives, removable storage, flash drives etc.) except for the following: <ul style="list-style-type: none"> • Memory 'swap/page' file purposes. • 'Core dumps' of memory required for troubleshooting. In the above circumstances, the following conditions apply:		
5D-1.14.a Examine documented configuration procedures to verify that the Host System must not write clear-text cryptographic keys to persistent storage (e.g., hard drives, removable storage, flash drives etc.) except for the following: <ul style="list-style-type: none"> • Memory 'swap/page' file purposes. • Core dumps' of memory required for trouble-shooting. 	Documented configuration procedures reviewed:	<Report Findings Here>
5D-1.14.b Examine Host System configuration settings and interview personnel to verify that clear-text cryptographic keys are not written to persistent storage except in the following circumstances: <ul style="list-style-type: none"> • Memory 'swap/page' file purposes. • 'Core dumps' of memory required for trouble-shooting. 	Personnel interviewed:	<Report Findings Here>
	Describe how the Host System configuration settings examined verified that clear-text cryptographic keys are not written to persistent storage except in the following circumstances: <ul style="list-style-type: none"> • Memory 'swap/page' file purposes. • 'Core dumps' of memory required for trouble-shooting. <Report Findings Here>	
5D-1.14.c Verify documented procedures include Requirements 5D-1.14.1 through 5D-1.14.5 below.		
5D-1.14.1 The locations must be predefined and documented.		
5D-1.14.1.a Review Host System configuration standards to verify that storage locations of any 'swap/page' files and 'core dumps' are defined.	Host System configuration standards reviewed:	<Report Findings Here>
5D-1.14.1.b Examine Host System configuration settings to verify that the Host System only outputs 'swap/page' files and 'core dumps' to the documented storage locations.	Describe how the Host System configuration settings examined verified that the Host System only outputs 'swap/page' files and 'core dumps' to the documented storage locations: <Report Findings Here>	
5D-1.14.2 Storage can only be made to a dedicated hard drive (on its own bus) within the host.		

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
5D-1.14.2 Examine Host System configuration settings and storage locations to verify that 'swap/page' files and 'core dumps' are written to a dedicated hard drive on its own bus on the Host System.	Describe how the Host System configuration settings and storage locations examined verified that 'swap/page' files and 'core dumps' are written to a dedicated hard drive on its own bus on the Host System: <Report Findings Here>	
5D-1.14.3 The swap/page files and/or core dumps must never be backed up or copied.		
5D-1.14.3.a Examine backup configuration settings for the Host System and storage locations to verify that 'swap/page' files and 'core dumps' are not backed up.	Describe how the backup configuration settings for the Host System and storage locations examined verified that 'swap/page' files and 'core dumps' are not backed up: <Report Findings Here>	
5D-1.14.3.b Examine configurations of storage locations to verify that 'swap/page' files and 'core dumps' cannot be copied off the storage locations.	Describe how the configurations of storage locations examined verified that 'swap/page' files and 'core dumps' cannot be copied off the storage locations: <Report Findings Here>	
5D-1.14.4 Access to, and the use of, any tools used for trouble-shooting or forensics must be strictly controlled.		
5D-1.14.4.a Examine documented procedures to verify that controls are defined to ensure that the access to, and use of, any tools used for trouble-shooting or forensics, are strictly controlled.	Documented procedures reviewed:	<Report Findings Here>
5D-1.14.4.b Observe the process for accessing the tools used for trouble-shooting or forensics, and verify that they are strictly controlled in accordance with the documented procedure.	Describe how the process for accessing the tools used for trouble-shooting or forensics verified that they are strictly controlled in accordance with the documented procedure: <Report Findings Here>	
5D-1.14.4.c Observe the process for using the tools used for trouble-shooting or forensics, and verify that they are strictly controlled in accordance with the documented procedure.	Describe how the process for using the tools used for trouble-shooting or forensics verified that they are strictly controlled in accordance with the documented procedure: <Report Findings Here>	
5D-1.14.5 All files must be securely deleted in accordance with industry-accepted standards for secure deletion of data: <ul style="list-style-type: none"> • Core dumps must be securely deleted immediately after analysis. • Memory 'swap/page' files must be securely deleted upon system shut down or reset. 		
5D-1.14.5.a Review documented procedures to verify that it defines a process for securely deleting 'swap/page' files and 'core dumps' at the required times: <ul style="list-style-type: none"> • Core dumps must be securely deleted immediately after analysis. • Memory 'swap/page' files must be securely deleted upon system shut down or reset. 	Documented procedures reviewed:	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
5D-1.14.5.b Verify, through the use of forensic tools and/or methods, that the secure procedure removes ‘swap/page’ files and ‘core dumps’, in accordance with industry-accepted standards for secure deletion of data.	Describe the forensic tools and/or methods used to verify that the secure procedure removes ‘swap/page’ files and ‘core dumps’, in accordance with industry-accepted standards for secure deletion of data: <Report Findings Here>	
5D-2.1 Host user passwords must be changed at least every 30 days. Note: This requirement applies to all user roles associated to persons with access to the Host System.		
5D-2.1.a Examine documented policies and procedures to verify that the Host System (s) user passwords must be changed at least every 30 days.	Documented policies and procedures reviewed:	<Report Findings Here>
5D-2.1.b Inspect Host System configuration settings to verify that user password parameters are set to require users to change passwords at least every 30 days.	Describe how the Host System configuration settings inspected verified that user password parameters are set to require users to change passwords at least every 30 days: <Report Findings Here>	
5D-2.2 User passwords must meet the following: <ul style="list-style-type: none"> • Consist of eight characters in length, • Consist of a combination of numeric, alphabetic, and special characters, or • Have equivalent strength/complexity. 		
5D-2.2.a Examine documented policies and procedures to verify that user passwords must: <ul style="list-style-type: none"> • Consist of eight characters in length, • Consist of a combination of numeric, alphabetic, and special characters, or • Have equivalent strength/complexity. 	Documented policies and procedures reviewed:	<Report Findings Here>
5D-2.2.b Inspect Host System (s) configuration settings to verify that user passwords: <ul style="list-style-type: none"> • Consist of eight characters in length, • Consist of a combination of numeric, alphabetic, and special characters, or • Have equivalent strength/complexity. 	Describe how the Host System configuration settings inspected verified that user passwords: <ul style="list-style-type: none"> • Consist of eight characters in length, • Consist of a combination of numeric, alphabetic, and special characters, or • Have equivalent strength/complexity. <Report Findings Here>	
5D-2.3 Where log-on security tokens (e.g., smart cards) are used to access the Host System, the security tokens must have an associated usage-authentication mechanism, such as a biometric or associated PIN or password/passphrase to enable their usage. The PIN or password/passphrase must be at least ten alphanumeric characters in length, or equivalent.		
5D-2.3.a If log-on security tokens are used, observe the security tokens in use to verify that they have an associated usage-authentication mechanism, such as a biometric or associated PIN or password/passphrase to enable their usage.	Log-on security tokens in use:	<Report Findings Here>
	Describe how log-on security tokens in use verified that an associated usage-authentication mechanism is in place to enable their usage: <Report Findings Here>	

Domain 5: Decryption Environment – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
5D-2.3.b Examine token-configuration settings to verify parameters are set to require that PINs or password/passphrases be at least ten alphanumeric characters in length, or equivalent.	Describe how the token-configuration settings examined verified that parameters are set to require that PINs or password/passphrases be at least ten alphanumeric characters in length, or equivalent: <Report Findings Here>	
5D-2.4 User accounts must be locked out of the Host System after not more than five failed attempts.		
5D-2.4.a Examine documented policies and procedures to verify that authentication parameters on the Host System must be set to require that a user’s account be locked out after not more than five invalid logon attempts.	Documented policies and procedures reviewed:	<Report Findings Here>
5D-2.4.b Inspect Host System configuration settings to verify that authentication parameters are set to require that a user’s account be locked out after not more than five invalid logon attempts.	Describe how the Host System configuration settings inspected verified that authentication parameters are set to require that a user’s account be locked out after not more than five invalid logon attempts: <Report Findings Here>	
5D-2.5 The Host System must enforce role-based access control to include, at a minimum, the following roles: <ul style="list-style-type: none"> • Host System operator role – for day-to-day non-sensitive operations of the Host System. • Host System administrator role – configuration of host OS, security controls, software and user accounts. • Cryptographic administrator role – configuration of cryptographic management functions • Host System security role – auditing of host functions 		
5D-2.5.a Examine documented access-control procedures to verify they define, as a minimum, the following roles: <ul style="list-style-type: none"> • Host System operator role – for day-to-day non-sensitive operations of the Host System. • Host System administrator role – configuration of host OS, security controls, software and user accounts. • Cryptographic administrator role – configuration of cryptographic management functions • Host System security role – auditing of host functions 	Documented access-control procedures reviewed:	<Report Findings Here>

Domain 5: Decryption Environment – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>5D-2.5.b Inspect the Host System configuration settings to verify that role-based access control is enforced and, at a minimum, the following roles are defined:</p> <ul style="list-style-type: none"> • Host System operator role – for day-to-day non-sensitive operations of the Host System. • Host System administrator role – configuration of host OS, security controls, software and user accounts. • Cryptographic administrator role – configuration of cryptographic management functions • Host System security role – auditing of host functions. 	<p>Describe how the Host System configuration settings inspected verified that role-based access control is enforced and, at a minimum, the following roles are defined:</p> <ul style="list-style-type: none"> • Host System operator role – for day-to-day non-sensitive operations of the Host System. • Host System administrator role – configuration of host OS, security controls, software and user accounts. • Cryptographic administrator role – configuration of cryptographic management functions • Host System security role – auditing of host functions. 	
	<Report Findings Here>	
<p>5D-2.5.c Interview a sample of users for each role to verify the assigned role is appropriate for their job function.</p>	Sample of users for each role interviewed:	<Report Findings Here>
<p>5D-2.6 The segregation of duties must be enforced between roles, through automated or manual processes, to ensure that no one person is able to control end-to-end processes; or be in a position to compromise the security of the Host System. The following conditions must be applied:</p>		
<p>5D-2.6.1 A Host System user must not be permitted to audit their own activity on the Host System.</p>		
<p>5D-2.6.1.a Examine documented procedures to verify that a Host System user is not permitted to audit their own activity on the Host System.</p>	Documented procedures reviewed:	<Report Findings Here>
<p>5D-2.6.1.b Interview audit personnel to verify that a Host System user is not permitted to audit their own activity on the Host System.</p>	Audit personnel interviewed:	<Report Findings Here>
<p>5D-2.6.2 A Host System administrator must use their operator-level account when performing non-administrative functions.</p>		
<p>5D-2.6.2.a Review documented policies and procedures to verify a Host System administrator is not permitted to use their administrative-level account when performing non-administrative functions.</p>	Documented policies and procedures reviewed:	<Report Findings Here>
<p>5D-2.6.2.b Interview and observe a Host System administrator to verify they use their operator-level account when performing non-administrative functions.</p>	Host System administrator interviewed:	<Report Findings Here>
	<p>Describe how the observation of the Host System administrator verified they use their operator-level account when performing non-administrative functions:</p>	
	<Report Findings Here>	
<p>5D-2.7 Changes to a Host System user’s account access privileges must be managed:</p> <ul style="list-style-type: none"> • Using a formal change-control procedure. • Requiring the participation of at least two persons. Therefore, the party making the change cannot authorize the change on their own. • Ensuring all changes to access privileges result in an audit log. 		

Domain 5: Decryption Environment – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
5D-2.7.a Examine documented policies and procedures to verify that changes to a user's access privileges are managed: <ul style="list-style-type: none"> Using a formal change-control procedure. Requiring the participation of at least two persons. Therefore, the party making the change cannot authorize the change on their own. Ensuring all changes to access privileges result in an audit log. 	Documented policies and procedures reviewed:	<Report Findings Here>
5D-2.7.b Observe the process required to change a user's access privileges and verify that it is managed: <ul style="list-style-type: none"> Using a formal change-control procedure. Requiring the participation of at least two persons. Therefore, the party making the change cannot authorize the change on their own. Ensuring all changes to access privileges result in an audit log. 	Describe how the observed process to change a user's access privileges verified that it is managed: <ul style="list-style-type: none"> Using a formal change-control procedure. Requiring the participation of at least two persons. Therefore, the party making the change cannot authorize the change on their own. Ensuring all changes to access privileges result in an audit log. <Report Findings Here>	
5D-2.7.c Inspect the Host System configuration settings and, for a sample of user accounts, verify that any changes to their access privileges have been formally documented in the audit log.	Sample of user accounts:	<Report Findings Here>
	Describe how the Host System configuration settings inspected verified that for the sample of user accounts, any changes to their access privileges have been formally documented in the audit log:	
	<Report Findings Here>	
5D-2.8 All physical and logical access privileges must be reviewed at least quarterly to ensure that personnel with access to the decryption environment, the Host System and Host System software require that access for their position and job function.		
5D-2.8.a Examine documented policies and procedures to verify that access privileges are reviewed, as a minimum, on a quarterly basis to ensure that the access privileges for personnel authorized to access the decryption environment, the Host System and Host System software required by their position and job function, are correctly assigned.	Documented policies and procedures reviewed:	<Report Findings Here>
5D-2.8.b Examine records and interview personnel to verify that access privileges are reviewed, as a minimum, on a quarterly basis.	Personnel interviewed:	<Report Findings Here>
	Records reviewed:	<Report Findings Here>
5D-2.9 Tamper detection mechanisms must be implemented on the host, to include an alert generation upon opening of the Host System case, covers and/or doors.		
5D-2.9.a Review Host System documentation to verify that tamper detection mechanisms are defined for the Host System, including the generation of an alert upon opening of the Host System case, covers and/or doors.	Host System documentation reviewed:	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
5D-2.9.b Observe tamper-detection mechanisms on the Host System to verify that a tamper detection mechanism is implemented and includes the generation of an alert upon opening of the Host System case, covers and/or doors.	Identify the tamper-detection mechanisms observed:	<Report Findings Here>
	Describe how the observed tamper-detection mechanisms are implemented and include the generation of an alert upon opening of the Host System case, covers and/or doors:	
	<Report Findings Here>	
5D-2.9.c Review records of alerts and interview personnel to verify an alert is generated upon opening of the Host System, covers and/or doors.	Records of alerts reviewed:	<Report Findings Here>
	Personnel interviewed:	<Report Findings Here>
5D-3.1 All non-console access to the Host System must use strong cryptography and security protocols		
5D-3.1.a For a sample of systems that are authorized to connect to the Host System via a non-console connection, inspect configuration settings to verify that access to the Host System is provided through the use of strong cryptography and security protocols	Sample of systems reviewed:	<Report Findings Here>
	Describe how the configuration settings inspected verified that access to the Host System is provided through the use of strong cryptography and security protocols:	
	<Report Findings Here>	
5D-3.1.b Inspect the configuration settings of system components to verify that all traffic transmitted over the secure channel uses strong cryptography.	Describe how the configuration settings of system components verified that all traffic transmitted over the secure channel uses strong cryptography:	
	<Report Findings Here>	
5D-3.2 Non-console access to the Host System must not provide access to any other service, or channel, outside of that used to connect to the Host, e.g., “split tunneling.”		
5D-3.2.a Inspect the configuration settings of the secure channel, to verify that ‘split tunneling’ is prohibited.	Describe how the configuration settings of the secure channel verified that ‘split tunneling’ is prohibited:	
	<Report Findings Here>	
5D-3.2.b Observe a Host System administrator log on to the device which provides non-console access to the Host System to verify that “split tunneling” is prohibited.	Describe how the Host System administrator’s log on to the device verified that ‘split tunneling’ is prohibited:	
	<Report Findings Here>	
5D-3.3 All non-console access to the Host System must use two-factor authentication.		

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
5D-3.3.a Inspect the configuration settings of the Host System and/or the device permitted to connect to the Host System, to verify that two-factor authentication is required for non-console access to the Host System.	Describe how the configuration settings of the Host System and/or the device permitted to connect to the Host System verified that two-factor authentication is required for non-console access to the Host System: <Report Findings Here>	
5D-3.3.b Observe a Host System administrator log on to the device that provides non-console access to the Host System to verify that two-factor authentication is required.	Describe how the Host System administrator’s log on to the device that provides non-console access to the Host System verified that two-factor authentication is required: <Report Findings Here>	
5D-3.4 Non-console connections to the Host System must only be permitted from authorized systems.		
5D-3.4.a Examine documented policies and procedures to verify that a process is defined to authorize systems for non-console access, and not permit access until such times that authorization has been granted.	Documented policies and procedures reviewed:	<Report Findings Here>
5D-3.4.b For a sample of systems, examine device configurations to verify that non-console access is permitted only from the authorized systems.	Sample of systems reviewed:	<Report Findings Here>
	Describe how device configurations for the sample of systems verified that non-console access is permitted only from the authorized systems:	
	<Report Findings Here>	
5D-3.5 Non-console access to the Host System must only be permitted from a PCI DSS compliant environment.		
5D-3.5 Verify that non-console access to the Host System is only permitted from a PCI DSS compliant environment, including 5D-3.5.1 through 5D-3.5.2 Review solution provider documentation, including data flow diagrams, and perform the following:	Solution provider documentation reviewed (including data flow diagrams):	<Report Findings Here>
5D-3.5.1 The authorized system (e.g., workstation) from which non-console access originates must meet all applicable PCI DSS requirements. For example, system hardening, patching, anti-virus protection, a local firewall etc.		
5D-3.5.1 Review solution provider documentation, including PCI DSS ROC and/or Attestation of Compliance (AOC), data flow diagrams, policies and, system configuration standards, to verify that the system authorized for non-console access meets all applicable PCI DSS requirements.	Solution provider documentation reviewed (including PCI DSS ROC and/or AOC):	<Report Findings Here>
5D-3.5.2 The network/system that facilitates non-console access to the Host System must:		
<ul style="list-style-type: none"> • Originate from and be managed by the solution provider. • Meet all applicable PCI DSS requirements. 		

Domain 5: Decryption Environment – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
5D-3.5.2. Review solution provider documentation, including PCI DSS ROC and/or Attestation of Compliance (AOC), data flow diagrams, policies and, system configuration standards, to verify that the network/system that facilitates non-console access to the Host System must: <ul style="list-style-type: none"> • Originate from and be managed by the solution provider. • Meet all applicable PCI DSS requirements. 	Solution provider documentation reviewed (including PCI DSS ROC and/or AOC):	<Report Findings Here>
5D-3.6 Users with access to non-console connections to the Host System must be authorized to use non-console connections.		
5D-3.6.a Examine documented policies and procedures to verify that non-console access to the Host System must only be provided to authorized users.	Documented policies and procedures reviewed:	<Report Findings Here>
5D-3.6.b Examine a sample of access control records and compare them to Host System settings to verify that non-console access to the Host System is only provided to authorized users.	Sample of access control records reviewed:	<Report Findings Here>
	Describe how the sample of access control records compared to Host System settings verified that non-console access to the Host System is only provided to authorized users:	
	<Report Findings Here>	
5D-3.7 Non-console sessions to the Host System must be terminated after 15 minutes of inactivity.		
5D-3.7.a Review documented policies and procedures to verify that the system parameters are set to terminate non-console sessions after 15 minutes of inactivity.	Documented policies and procedures reviewed:	<Report Findings Here>
5D-3.7.b Inspect the system configuration settings to verify that the system parameters are set to terminate non-console sessions after 15 minutes of inactivity.	Describe how system configuration settings verified that the system parameters are set to terminate non-console sessions after 15 minutes of inactivity:	
	<Report Findings Here>	
5D-4.1 The Host System must be located within a physically secure room that is dedicated to decryption operations and transaction processing.		
5D-4.1 Observe the physically secure room where the Host System is located and interview personnel to verify that all systems therein are designated to decryption operations and transaction processing.	Personnel interviewed:	<Report Findings Here>
	Describe how observation of the physically secure room where the Host System is located verified that all systems therein are designated to decryption operations and transaction processing:	
	<Report Findings Here>	
5D-4.2 All individuals must be identified and authenticated before being granted access to the secure room—e.g., badge-control system, biometrics.		
5D-4.2.a Examine documented policies and procedures to verify that all individuals must be identified and authenticated before being granted access to the secure room.	Documented policies and procedures reviewed:	<Report Findings Here>

Domain 5: Decryption Environment – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
5D-4.2.b Examine physical access controls to verify that all individuals are identified and authenticated before being granted access to the secure room.	Physical access controls examined:	<Report Findings Here>
5D-4.2.c Observe authorized personnel entering the secure room to verify that all individuals are identified and authenticated before being granted access.	Describe how observation of authorized personnel entering the secure room verified that all individuals are identified and authenticated before being granted access:	<Report Findings Here>
5D-4.3 All physical access to the secure room must be monitored and logs must be maintained as follows: <ul style="list-style-type: none"> • Logs must be retained for a minimum of three years. • Logs must be regularly reviewed by an authorized person who does not have access to the secure room or to the systems therein. • Log reviews must be documented. • Logs must include but not be limited to: <ul style="list-style-type: none"> – Logs of access to the room from a badge access system – Logs of access to the room from a manual sign-in sheet 		
5D-4.3.a Examine documented policies and procedures to verify all physical access to the secure room must be monitored and logs must be maintained. Policies and procedures must require the following: <ul style="list-style-type: none"> • Logs are retained for a minimum of three years. • Logs are regularly reviewed by an authorized person who does not have access to the secure room or to the systems therein. • Log reviews are documented. • Logs include at a minimum: <ul style="list-style-type: none"> – Access to the room from a badge access system – Access to the room from a manual sign-in sheet 	Documented policies and procedures reviewed:	<Report Findings Here>
5D-4.3.b Examine a sample of logs used to record physical access to the secure room to verify the following: <ul style="list-style-type: none"> • Logs are being retained for a minimum of three years. • Logs include at a minimum: <ul style="list-style-type: none"> – Access to the room from a badge access system – Access to the room from a manual sign-in sheet 	Sample of logs reviewed:	<Report Findings Here>
5D-4.3.c Interview personnel responsible for reviewing logs used to record physical access to the secure room, to verify the following: <ul style="list-style-type: none"> • Logs are regularly reviewed. • Log reviews are documented. • The person performing the review does not have access to the secure room or to the systems therein. 	Responsible personnel interviewed:	<Report Findings Here>
5D-4.4 Dual access must be required for the secure room housing the Host System.		

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
5D-4.4.a Inspect physical access controls to verify that dual access is enforced.	Physical access controls inspected:	<Report Findings Here>
5D-4.4.b Observe authorized personnel entering the secure room to verify that dual access is enforced.	Describe how observation of authorized personnel entering the secure room verified that dual control is enforced: <Report Findings Here>	
5D-4.5 Physical access must be only permitted to designated personnel with defined business needs and duties.		
5D-4.5.a Examine documented policies and procedures to verify that physical access to the secure room is only permitted to designated personnel with defined business needs and duties.	Documented policies and procedures reviewed:	<Report Findings Here>
5D-4.5.b Examine the list of designated personnel and interview responsible personnel to verify that only personnel with defined business needs and duties are permitted access to the secure room.	Documented list of designated personnel:	<Report Findings Here>
	Responsible personnel interviewed:	<Report Findings Here>
5D-4.5.c Examine physical access controls to verify that physical access to the secure room is only permitted to pre-designated personnel with defined business needs and duties.	Describe how physical access controls verified that physical access to the secure room is only permitted to pre-designated personnel with defined business needs and duties: <Report Findings Here>	
5D-4.6 The secure room must be monitored via CCTV on a 24-hour basis. This must include, as a minimum, the following areas: <ul style="list-style-type: none"> All entrances and exists Access to the Host System and HSM(s) Note: Motion-activated systems that are separate from the intrusion-detection system may be used.		
5D-4.6.a Inspect CCTV configuration and review a sample of recordings to verify that CCTV monitoring is in place on a 24 hour basis, and covers, as a minimum, the following areas: <ul style="list-style-type: none"> All entrances and exists Access to the Host System and HSM(s) 	Sample of CCTV recordings reviewed:	<Report Findings Here>
	Describe how CCTV configurations observed verified that CCTV monitoring is in place on a 24 hour basis, and covers, as a minimum, the following areas: <ul style="list-style-type: none"> All entrances and exists Access to the Host System and HSM(s) <Report Findings Here>	
5D-4.6.b If CCTV is motion-activated, observe system configurations for the motion-activated systems to verify they are separate from the intrusion-detection system.	Describe how system configurations for the motion-activated systems verified that they are separate from the intrusion-detection systems: <Report Findings Here>	
5D-4.7 Surveillance cameras must not be configured to allow the monitoring of computer screens, keyboards, PIN pads, or other systems which may expose sensitive data.		

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
5D-4.7 Observe CCTV camera positioning and examine a sample of recordings to verify that CCTV cameras do not monitor any computer screens, PIN pads, keyboards, or other systems which may expose sensitive data.	Sample of CCTV recordings reviewed:	<Report Findings Here>
	Describe how observed CCTV camera positioning and the sample of recordings verified that CCTV cameras do not monitor any computer screens, PIN pads, keyboards, or other systems which may expose sensitive data:	
	<Report Findings Here>	
5D-4.8 CCTV recorded images must be securely archived for at least 45 days. If digital-recording mechanisms are used, they must have sufficient storage capacity and redundancy to prevent the loss of information necessary to reconstruct events for the most recent 45-day period.		
5D-4.8.a Examine a sample of recordings to verify that at least the most recent 45 days of images are securely archived.	Sample of CCTV recordings reviewed:	<Report Findings Here>
	Describe how system configurations observed verified that the systems have sufficient redundancy to prevent the loss of information necessary to reconstruct events for the most recent 45-day period:	
5D-4.8.b If digital-recording mechanisms are used, examine system configurations to verify that the systems have sufficient redundancy to prevent the loss of information necessary to reconstruct events for the most recent 45-day period.	<Report Findings Here>	
5D-4.9 Personnel with access to the secure room must not have access to the media (e.g., VCR tapes, digital recording systems, etc.) with the recorded surveillance data.		
5D-4.9.a Examine documented access policies and procedures to verify that personnel with access to the secure room are not permitted to have access to the media containing recorded surveillance data for that environment.	Documented policies and procedures reviewed:	<Report Findings Here>
	Describe how access lists for the secure room as well as access controls to the media containing surveillance data verified that personnel with access to the secure room do not have access to the media containing recorded surveillance data:	
5D-4.9.b Examine access lists for the secure room as well as access controls to the media containing surveillance data, to verify that personnel with access to the secure room do not have access to the media containing recorded surveillance data	<Report Findings Here>	
5D-4.10 Continuous or motion-activated, appropriate lighting must be provided for the cameras. Note: <i>Visible spectrum lighting may not be necessary if the cameras do not require such lighting to capture images (e.g., when infrared cameras are used).</i>		
5D-4.10.a Observe the secure room to verify that continuous or motion-activated lighting is provided for the cameras monitoring the secure room.	Describe how the observed secure room verified that continuous or motion-activated lighting is provided for the cameras monitoring the secure room:	
	<Report Findings Here>	
5D-4.10.b Examine a sample of recorded CCTV images to verify that appropriate lighting is provided when persons are present in the secure room.	Sample of recorded CCTV images examined:	<Report Findings Here>
5D-4.11 A 24/7 physical intrusion-detection system must be in place for the secure room (e.g., motion detectors when unoccupied). This must be connected to the alarm system and automatically activated whenever all authorized personnel have exited the secure room.		

Domain 5: Decryption Environment – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
5D-4.11.a Examine security policies and procedures to verify they require: <ul style="list-style-type: none"> Continuous (24/7) physical intrusion-detection monitoring of the secure room. The physical intrusion-detection must be connected to the alarm system and automatically activated whenever all authorized personnel have exited the secure room. 	Documented security policies and procedures reviewed:	<Report Findings Here>
5D-4.11.b Observe the physical intrusion-detection system to verify that it: <ul style="list-style-type: none"> Provides continuous (24/7) monitoring of the secure room. It is connected to the alarm system and automatically activated whenever all authorized personnel have exited the secure room. 	Describe how the physical intrusion-detection system verified that it: <ul style="list-style-type: none"> Provides continuous (24/7) monitoring of the secure room. It is connected to the alarm system and automatically activated whenever all authorized personnel have exited the secure room. 	<Report Findings Here>
5D-4.12 Any windows in the secure room must be locked, protected by alarmed sensors, or otherwise similarly secured.		
5D-4.12.a Observe all windows in the secure room to verify they are locked and protected by alarmed sensors.	Identify the P2PE Assessor who confirms all windows in the observed secure room are locked and protected by alarmed sensors:	<Report Findings Here>
5D-4.12.b Examine configuration of window sensors to verify that the alarm mechanism is active.	Describe how configuration of window sensors verified that the alarm mechanism is active:	<Report Findings Here>
5D-4.13 Any windows must be covered, rendered opaque, or positioned to prevent unauthorized observation of the secure room.		
5D-4.13 Observe all windows in the secure areas to verify they are covered, rendered opaque, or positioned to prevent unauthorized observation of the secure room.	Identify the P2PE Assessor who confirms all windows in the observed secure room are covered, rendered opaque, or positioned to prevent unauthorized observation of the secure room:	<Report Findings Here>
5D-4.14 Access-control and monitoring systems must be connected to an uninterruptible power source (UPS) to prevent outages.		
5D-4.14 Inspect uninterruptible power source (UPS) system configurations to verify that all access-control and monitoring systems are powered through the UPS.	Describe how the UPS system configurations observed verified that all access-control and monitoring systems are powered through the UPS:	<Report Findings Here>
5D-4.15 All alarm events must be logged.		

Domain 5: Decryption Environment – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
5D-4.15.a Examine security policies and procedures to verify they require that all alarm events are logged.	Documented security policies and procedures reviewed:	<Report Findings Here>
5D-4.15.b Examine security-system configurations and documented alarm events to verify that all alarm events are logged.	Describe how security-system configurations and documented alarm events verified that all alarm events are logged: <Report Findings Here>	
5D-4.16 Documented alarm events must be signed off by an authorized person who was not involved in the event.		
5D-4.16.a Examine security policies and procedures to verify alarm events must be signed off by an authorized person other than the individual who was involved in the event.	Documented security policies and procedures reviewed:	<Report Findings Here>
5D-4.16.b For a sample of documented alarm events, interview personnel who signed off on the event to verify that person was not involved in the event.	Sample of documented alarm events reviewed:	<Report Findings Here>
	Signing personnel interviewed:	<Report Findings Here>
5D-4.17 Use of an emergency entry or exit mechanism must cause an alarm event.		
5D-4.17 Examine security system configurations to verify that an alarm event is generated upon use of any emergency entry or exit mechanism.	Describe how security system configurations observed verified that an alarm event is generated upon use of any emergency entry or exit mechanism: <Report Findings Here>	
5D-4.18 Authorized personnel must respond to all physical intrusion alarms within 30 minutes.		
5D-4.18.a Examine documented policies and procedures to verify they define that all alarm events are responded to by authorized personnel within 30 minutes.	Documented policies and procedures reviewed:	<Report Findings Here>
5D-4.18.b Examine documented alarm events and interview personnel to verify alarm events were responded by authorized personnel within 30 minutes.	Documented alarm events reviewed:	<Report Findings Here>
	Personnel interviewed:	<Report Findings Here>
5D-4.19 A process for synchronizing the time and date stamps of the access-control, intrusion-detection and monitoring (camera) systems must be implemented. Note: This may be done by either automated or manual mechanisms.		
5D-4.19.a Examine documented procedures to verify that mechanisms are defined for synchronizing the time and date stamps of the access, intrusion-detection, and monitoring (camera) systems.	Documented procedures reviewed:	<Report Findings Here>

Domain 5: Decryption Environment – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
5D-4.19.b Examine system configurations for access, intrusion-detection, and monitoring (camera) systems to verify that time and date stamps are synchronized.	Describe how system configurations for access, intrusion-detection, and monitoring (camera) systems verified that time and date stamps are synchronized:	
	<Report Findings Here>	
5D-4.19.c Examine a sample of logs from the access, intrusion-detection, and monitoring (camera) systems to verify log time and date stamps are synchronized.	Sample of logs from the access, intrusion-detection, and monitoring (camera) systems:	<Report Findings Here>
5D-4.19.1 If a manual synchronization process is used, synchronization must occur at least quarterly, and documentation of the synchronization must be retained for at least a one-year period.		
5D-4.19.1.a If a manual synchronization process is implemented, interview responsible personnel and examine records of synchronization to verify the mechanism is performed at least quarterly.	Responsible personnel interviewed:	<Report Findings Here>
	Records of synchronization examined:	<Report Findings Here>
5D-4.19.1.b Examine records of the synchronization process to verify that documentation is retained for at least one year.	Records of synchronization examined:	<Report Findings Here>
5D-4.20 The entrance to the secure room must include a mechanism to ensure the door is not left open. <i>For example:</i>		
<ul style="list-style-type: none"> • A door that is contact monitored and fitted with automatic closing or locking devices. • An airlock entrance system. 		
5D-4.20 Observe authorized personnel entering the secure room to verify that a mechanism is in place to ensure the door is not left open. <i>Examples include:</i>	Describe how the observation of authorized personnel entering the secure room verified that a mechanism is in place to ensure the door is not left open:	
	<Report Findings Here>	
<ul style="list-style-type: none"> • A door that is contact monitored and fitted with automatic closing or locking devices. • An airlock entrance system. 		
5D-4.21 An audible alarm must sound if the entrance to the secure room remains open for more than 30 seconds.		
5D-4.21.a Examine secure room entry mechanisms to verify that an audible alarm is configured to sound if the entrance remains open for more than 30 seconds.	Identify the secure room entry mechanisms examined:	<Report Findings Here>
5D-4.23.b Observe authorized personnel entering the secure room and request the door is held open. Verify that an audible alarm sounds if the entrance remains open for more than 30 seconds.	Describe how the observation of authorized personnel entering the secure room and holding the door open more than 30 seconds verified an audible alarm sounds:	
	<Report Findings Here>	

Domain 5: Decryption Environment – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>5E-1.1 Track status of the decryption-management service and provide reports to solution provider annually and upon significant changes, including at least the following:</p> <ul style="list-style-type: none"> • Types/models of HSMs • Number of HSMs deployed and any change in numbers since last report • Date of last physical inspection of HSMs • Date/status of last PCI DSS assessment • Details of any suspicious activity that occurred, per 5C-1.2 	<p><Report Findings Here></p>	
<p>5E-1.1.a Review component provider’s documented procedures for providing required reporting to applicable solution providers, and interview responsible component-provider personnel, and to confirm that the following processes are documented and implemented:</p> <ul style="list-style-type: none"> • Providing reports annually and upon significant changes • Types/models of HSMs • Number of HSMs deployed and description of any changes since last report • Date of last physical inspection of HSMs • Date/status of last PCI DSS assessment • Details of any suspicious activity that occurred, per 5C-1.2 	<p>Component provider’s documented procedures reviewed:</p>	<p><Report Findings Here></p>
<p>5E-1.1.b Observe reports provided to applicable solution providers annually and upon significant changes to the solution, and confirm they include at least the following:</p> <ul style="list-style-type: none"> • Types/models of HSMs • Number of HSMs deployed and description of any changes since last report • Date of last physical inspection of HSMs • Date/status of last PCI DSS assessment • Details of any suspicious activity that occurred, per 5C-1.2 	<p>Responsible component provider personnel interviewed:</p>	<p><Report Findings Here></p>
<p>5E-1.2 Manage and monitor changes to decryption-management services and notify the solution provider upon occurrence of any of the following:</p> <ul style="list-style-type: none"> • Addition and/or removal of HSM types. • Critical infrastructure changes, including to the PCI DSS environment • Changes to PCI DSS compliance status <p><i>Note that adding or removing HSM types may require adherence to PCI SSC’s process for P2PE Designated Changes to Solutions. Please refer to the P2PE Program Guide for details about obligations when adding, changing, or removing elements of a P2PE solution.</i></p>	<p>Identify reports reviewed:</p>	<p><Report Findings Here></p>

Domain 5: Decryption Environment – Reporting

Requirements and Testing Procedures		Reporting Instructions and Assessor’s Findings	
5E-1.2.a Review component provider’s documented procedures and interview responsible component-provider personnel, and confirm that processes include notifying the solution provider upon occurrence of the following: <ul style="list-style-type: none"> • Critical infrastructure changes, including to the PCI DSS environment • Changes to PCI DSS compliance status • Additions and/or removal of HSM types 	Component provider’s documented procedures reviewed:	<Report Findings Here>	
	Responsible component provider personnel interviewed:	<Report Findings Here>	
5E-1.2.b Observe reports provided to applicable solution providers, and confirm at least the following are reported upon occurrence: <ul style="list-style-type: none"> • Critical infrastructure changes, including to the PCI DSS environment • Changes to PCI DSS compliance status • Additions and/or removal of HSM types. 	Identify reports reviewed:	<Report Findings Here>	

Domain 6: P2PE Cryptographic Key Operations and Device Management – Summary of Findings

Domain 6: P2PE Validation Requirements	Summary of Findings (check one)		
	In Place	N/A	Not in Place
6A Account data is processed using algorithms and methodologies that ensure they are kept secure.			
<i>6A-1 Account data is protected with appropriate cryptographic algorithms, key sizes and strengths, and key-management processes.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6B Account-data keys and key-management methodologies are created using processes that ensure it is not possible to predict any key or determine that certain keys are more probable than other keys.			
<i>6B-1 All keys and key components are generated using an approved random or pseudo-random process.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>6B-2 Compromise of the key generation process must not be possible without collusion between at least two trusted individuals.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>6B-3 Documented procedures must exist and must be demonstrably in use for all key-generation processing.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6C Keys are conveyed or transmitted in a secure manner.			
<i>6C-1 Secret or private keys shall be transferred by:</i> a) Physically forwarding the key as at least two separate key shares or full-length components (hard copy, smart card, SCD) using different communication channels, or b) Transmitting the key in ciphertext form. <i>Public keys must be conveyed in a manner that protects their integrity and authenticity.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>6C-2 During its transmission, conveyance, or movement between any two organizational entities, any single unencrypted secret or private key component must at all times be protected.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>6C-3 All key-encryption keys used to transmit or convey other cryptographic keys must be (at least) as strong as any key transmitted or conveyed.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>6C-4 Documented procedures must exist and must be demonstrably in use for all key transmission and conveyance processing.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Domain 6: P2PE Validation Requirements	Summary of Findings (check one)		
	In Place	N/A	Not in Place
6D Key loading is handled in a secure manner.			
6D-1 Secret and private keys must be input into hardware (host) security modules (HSMs) and Point of Interaction (POI) devices in a secure manner. a) Unencrypted secret or private keys must be entered into cryptographic devices using the principles of dual control and split knowledge. b) Key-establishment techniques using public-key cryptography must be implemented securely.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6D-2 The mechanisms used to load secret and private keys—such as terminals, external PIN pads, key guns, or similar devices and methods—must be protected to prevent any type of monitoring that could result in the unauthorized disclosure of any component.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6D-3 All hardware and access/authentication mechanisms (e.g., passwords) used for key loading or the signing of authenticated applications (e.g., for “whitelists”) must be managed under dual control.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6D-4 The loading of keys or key components must incorporate a validation mechanism such that the authenticity of the keys is ensured and it can be ascertained that they have not been tampered with, substituted, or compromised.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6D-5 Documented procedures must exist and be demonstrably in use (including audit trails) for all key-loading activities.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6E Keys are used in a manner that prevents or detects their unauthorized usage.			
6E-1 Unique, secret cryptographic keys must be in use for each identifiable link between host computer systems of two organizations or logically separate systems within the same organization.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6E-2 Procedures must exist to prevent or detect the unauthorized substitution (unauthorized key replacement and key misuse) of one key for another key or the operation of any cryptographic device without legitimate keys.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6E-3 Cryptographic keys must be used only for their sole intended purpose and must never be shared between production and test systems.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6E-4 All secret and private cryptographic keys ever present and used for any function (e.g., key-encipherment or account data-encipherment) by a POI device that processes account data must be unique (except by chance) to that device.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Domain 6: P2PE Validation Requirements	Summary of Findings (check one)		
	In Place	N/A	Not in Place
6F Keys are administered in a secure manner.			
6F-1 Secret keys used for enciphering account-data-encryption keys or for account-data encryption, or private keys used in connection with remote key-distribution implementations, must never exist outside of SCDs, except when encrypted or securely stored and managed using the principles of dual control and split knowledge.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6F-2 Procedures must exist and must be demonstrably in use to replace any known or suspected compromised key, its subsidiary keys (those keys encrypted with the compromised key), and keys derived from the compromised key, to a value not feasibly related to the original key.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6F-3 Keys generated using reversible key-calculation methods, such as key variants, must only be used in SCDs that possess the original key. Keys generated using reversible key-calculation methods must not be used at different levels of the key hierarchy. For example, a variant of a key-encryption key used for key exchange must not be used as a working key or as a Master File Key for local storage. Keys generated with a non-reversible process, such as key derivation or transformation process with a base key using an encipherment process, are not subject to these requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6F-4 Secret and private keys and key components that are no longer used or have been replaced must be securely destroyed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6F-5 Access to secret and private cryptographic keys and key materials must be: a) Limited to a need-to-know basis so that the fewest number of key custodians are necessary to enable their effective use; and b) Protected such that no other person (not similarly entrusted with that component) can observe or otherwise contain the component.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6F-6 Logs must be kept for any time that keys, key components or related materials are removed from storage or loaded to an SCD.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6F-7 Backups of secret and private keys must exist only for the purpose of reinstating keys that are accidentally destroyed or are otherwise inaccessible. The backups must exist only in one if the allowed storage forms for that key. Note: It is not a requirement to have backup copies of key components or keys.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6F-8 Documented procedures must exist and must be demonstrably in use for all key-administration operations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Domain 6: P2PE Validation Requirements	Summary of Findings (check one)		
	In Place	N/A	Not in Place
6G Equipment used to process account data and keys is managed in a secure manner.			
6G-1 <i>Equipment used to protect account data (e.g., POI devices and HSMs) must be placed into service only if there is assurance that the equipment has not been substituted or subjected to unauthorized modifications or tampering prior to the deployment of the device—both prior to and subsequent to the loading of cryptographic keys—and that precautions are taken to minimize the threat of compromise once deployed.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6G-2 <i>Not used in Domain 6 but is used in Annex B</i>			
6G-3 <i>Procedures must be in place and implemented to protect and SCDs—and endure the destruction of any cryptographic keys or key material within such devices—when removed from service, retired at the end of the deployment lifecycle, or returned for repair.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6G-4 <i>Any SCD capable of encrypting a key and producing cryptograms (i.e., and HSM or key-injection/loading device) of that key, or signing applications to be loaded onto a POI device, must be protected against unauthorized use to encrypt known keys or known key components. This protection takes the form of one or more of the following:</i> <ul style="list-style-type: none"> a) <i>Dual access controls required to enable the key-encryption function</i> b) <i>Physical protection of the equipment (e.g., locked access to it) under dual control</i> c) <i>Restriction of logical access to the equipment</i> 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6G-5 <i>Documented procedures must exist and be demonstrably in use to ensure the security and integrity of account-data processing equipment (e.g., POI devices and HSMs) placed into service, initialized, deployed, used, and decommissioned.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6H For hybrid decryption solutions: Implement secure hybrid-key management.			
6H-1 <i>Hybrid decryption solutions securely manage the Data decryption Keys (DDKs) that decrypt account data in software on a Host System.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6I Component providers ONLY: report status to solution providers.			
6I-1 <i>For component providers performing key management in conjunction with device-management or decryption-management services, maintain and monitor critical P2PE controls and provide reporting to the responsible solution provider.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Table 6.1 – Key Matrix. List of all cryptographic keys (by type) used in P2PE Solution

Additional detailed requirements available in Domain 6 Normative Annex C

Key Name/ description:	Algorithm – e.g. TDEA, AES, RSA	Cryptographic Mode(s) of Operation (as applicable)	Size (bits)	Purpose/usage of the key (including types of devices using the key):	Key- creation method:	How key is distributed – e.g. manually via courier, and/or via remote key distribution (Annex A) and/or via KIF (Annex B)*:	Types of media used for key storage:	Method of key destruction:

* **Note:** Keys distributed by remote key distribution must be included in Annex A; keys distributed via injection must be included in Annex B.

Table 6.2 – List of devices used to generate keys or key components

All keys identified in Table 6.1 must be included in Table 6.2

Device name/ identifier:	Manufacturer/ Model:	Type of key(s) generated (per Table 6.1):	Device location:	Approved key-generation function (PTS, FIPS, or other approved per NIST SP800-22)	PTS or FIPS approval number, or other certification details:	Approved Hardware #(s):	Approved Firmware #(s):

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings
6A.1.1 Only approved encryption algorithms and key sizes must be used to protect account data and cryptographic keys, as listed in <i>Normative Annex C: Minimum and Equivalent Key Sizes and Strengths for Approved Algorithms</i> .	
6A-1.1.a Examine documented key-management policies and procedures to verify that all cryptographic keys use algorithms and key sizes that are in accordance with <i>Normative Annex C: Minimum and Equivalent Key Sizes and Strengths for Approved Algorithms</i> .	Documented key-management policies and procedures reviewed: <Report Findings Here>

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6A-1.1.b Observe key-management operations and devices to verify that all cryptographic algorithms and key sizes are in accordance with <i>Normative Annex C: Minimum and Equivalent Key Sizes and Strengths for Approved Algorithms</i> .	Describe how observed key-management operations and devices verified that all cryptographic algorithms and key sizes are in accordance with <i>Normative Annex C: Minimum and Equivalent Key Sizes and Strengths for Approved Algorithms</i> : <Report Findings Here>	
6A-1.2 Cryptographic-key changes must be implemented for keys that have reached the end of their crypto-period (e.g., after a defined period of time 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 (e.g., <i>NIST Special Publication 800-57</i>). <i>See Normative Annex C: Minimum and Equivalent Key Sizes and Strengths for Approved Algorithms.</i>		
6A-1.2.a Examine documented key-management procedures to verify: <ul style="list-style-type: none"> • Crypto-periods are defined for every type of key in use. • Crypto-periods are based on industry best practices and guidelines (e.g., <i>NIST Special Publication 800-57</i>). • A process/methodology is in place to determine when the crypto-period is reached for each cryptographic key. • Cryptographic key changes are implemented whenever a key reaches the end of its defined crypto-period. 	Documented key-management procedures reviewed:	<Report Findings Here>
6A-1.2.b Through observation of key-management operations and inspection of SCDs, verify that crypto-periods are defined for every type of key in use.	SCDs inspected:	<Report Findings Here>
Describe how the observed key-management operations and the inspected SCDs verified that crypto-periods are defined for every type of key in use: <Report Findings Here>		
6A-1.3 Documentation describing the architecture (including all participating devices and cryptographic protocols), set-up and operation of the key-management solution must exist and must be demonstrably in use for all key-management processes.		
6A-1.3.a Verify documentation exists describing the architecture (including all participating devices and cryptographic protocols), set-up and operation of the key-management solution.	Documentation reviewed:	<Report Findings Here>
6A-1.3.b Observe architecture and key-management operations to verify that the documentation reviewed in 6A-1.1.4.a is demonstrably in use for all key-management processes.	Describe how architecture and key-management operations verified that the documentation reviewed in 6A-1.1.4.a is demonstrably in use for all key-management processes: <Report Findings Here>	

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>6A-1.3.1 Maintain documentation of all cryptographic keys managed as part of the P2PE solution, including:</p> <ul style="list-style-type: none"> • Key type/description • Description of level in the key hierarchy • Purpose/function of the key (including type of devices using key) • Key-creation method • Key-distribution method (e.g., manually via courier, remote key distribution) • Type of media used for key storage • Key-destruction method 		
<p>6A-1.3.1.a Examine key management policies and procedures and verify documentation of all cryptographic keys managed as part of the P2PE solution is required, and includes:</p> <ul style="list-style-type: none"> • Key type/description • Description of level in the key hierarchy • Purpose/function of the key (including type of devices using key) • Key-creation method • Key-distribution method (e.g., manually via courier, remote key distribution) • Type of media used for key storage • Key-destruction method 	Documented key management policies and procedures reviewed:	<Report Findings Here>
<p>6A-1.3.1.b Observe documentation and interview personnel and confirm that documentation of all cryptographic keys managed as part of the P2PE solution exists, and includes:</p> <ul style="list-style-type: none"> • Key type/description • Description of level in the key hierarchy • Purpose/function of the key (including type of devices using key) • Key-creation method • Key-distribution method (e.g., manually via courier, remote key distribution) • Type of media used for key storage • Key-destruction method 	Documentation reviewed:	<Report Findings Here>
	Personnel interviewed:	<Report Findings Here>
<p>6A-1.3.2 Maintain a list of all devices used to generate keys or key components managed as part of the P2PE solution, including:</p> <ul style="list-style-type: none"> • Device name/identifier • Device manufacturer/model • Type of keys generated (per 6A-1.3.1) • Device location • Approved key-generation function (PTS, FIPS, or other approved per NIST SP800-22) 		

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>6A-1.3.2.a Examine key management policies and procedures and verify a list of all devices used to generate keys managed as part of the P2PE solution is required, and includes:</p> <ul style="list-style-type: none"> • Device name/identifier • Device manufacturer/model • Type of keys generated (per 6A-1.3.1) • Device location • Approved key-generation function (PTS, FIPS, or other approved per NIST SP800-22) 	Documented key management policies and procedures reviewed:	<Report Findings Here>
<p>6A-1.3.2.b Observe documentation and interview personnel and confirm that a list of all devices used to generate keys managed as part of the P2PE solution exists, and includes:</p> <ul style="list-style-type: none"> • Device name/identifier • Device manufacturer/model • Type of keys generated (per 6A-1.3.1) • Device location • Approved key-generation function (PTS, FIPS, or other approved per NIST SP800-22) 	Documentation reviewed:	<Report Findings Here>
	Personnel interviewed:	<Report Findings Here>
<p>6B-1.1 Keys must be generated so that it is not feasible to determine that certain keys are more probable than other keys from the set of all possible keys. Cryptographic keys or key components must be generated by one of the following:</p> <ul style="list-style-type: none"> • An approved key-generation function of a PCI–approved HSM or POI device; • An approved key-generation function of a FIPS 140-2 Level 3 (or higher) HSM; or • An approved random number generator that has been certified by an independent laboratory to comply with NIST SP800-22 <p><i>Random number generation is critical to the security and integrity of all cryptographic systems. All cryptographic key generation relies upon good quality, randomly generated values.</i></p>		
<p>6B-1.1.a Examine key-management policy document and verify that it requires that all devices used to generate cryptographic keys meet one of the following:</p> <ul style="list-style-type: none"> • An approved key-generation function of a PCI–approved HSM or POI device; • An approved key-generation function of a FIPS 140-2 Level 3 (or higher) HSM; or • An approved random number generator that has been certified by an independent qualified laboratory according to NIST SP 800-22. 	Documented key management policies and procedures reviewed:	<Report Findings Here>

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6B-1.1.b Examine certification letters or technical documentation to verify that all devices used to generate cryptographic keys or key components meet one of the following:</p> <ul style="list-style-type: none"> • An approved key-generation function of a PCI-approved HSM or POI device; • An approved key-generation function of a FIPS 140-2 Level 3 (or higher) HSM; or • An approved random number generator that has been certified by an independent qualified laboratory according to NIST SP 800-22 	Certification letters/technical documentation reviewed:	<Report Findings Here>
<p>6B-1.1.c Observe devices performing key-generation functions, including validation of firmware used.</p>	Describe how the reviewed devices used for key generation verified that devices are as noted above, including validation of the firmware:	
	<Report Findings Here>	
<p>6B-2.1 Implement security controls, including dual control and tamper protection to prevent the unauthorized disclosure of keys/key components.</p>		
<p>6B-2.1 Perform the following:</p>		
<p>6B-2.1.1 Any clear-text output of the key-generation process must be overseen by at least two authorized individuals who ensure there is no unauthorized mechanism that might disclose a clear-text key or key component as it is transferred between the key-generation SCD and the device or medium receiving the key or key component.</p>		
<p>6B-2.1.1.a Examine documented procedures to verify the following.</p> <ul style="list-style-type: none"> • Any clear-text output of the key-generation process is overseen by only the assigned key custodian(s) for that component/share and is limited to those individual components and not the entire key. • There is no unauthorized mechanism that might disclose a clear-text key or key component between the key-generation device and the device or medium receiving the key or key component. 	Documented procedures reviewed:	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6B-2.1.1.b Observe key-generation processes and interview responsible personnel to verify:</p> <ul style="list-style-type: none"> Any clear-text output of the key-generation process is overseen by only the assigned key custodian(s) for that component/share and is limited to those individual components and not the entire key. There is no mechanism (including connectivity) that might disclose a clear-text key or key component between the key-generation device and the device or medium receiving the key or key component. 	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the key-generation processes observed verified that any clear-text output of the key-generation process is overseen by only the assigned key custodian(s) for that component/share and is limited to those individual components and not the entire key:	
	<Report Findings Here>	
	Describe how the key-generation processes observed verified that there is no mechanism (including connectivity) that might disclose a clear-text key or key component between the key-generation device and the device or medium receiving the key or key component:	
<Report Findings Here>		
<p>6B-2.1.2 There must be no point in the process where a single individual has the ability to determine, obtain, or ascertain any part of a clear-text key or all the components for a key.</p> <p>Note: Full-length key components or key shares derived using a recognized key-splitting algorithm are not considered key parts and do not provide any information regarding the actual cryptographic key.</p>		
<p>6B-2.1.2.a Observe the process from end-to-end to verify there is no point in the process where a single person has the ability to determine, obtain, or ascertain any part of a clear-text key or all the components for a key.</p>	Describe how the end-to-end process verified that there is no point in the process where a single person has the ability to determine, obtain, or ascertain any part of a clear-text key or all the components for a key:	
	<Report Findings Here>	
<p>6B-2.1.2.b Examine key-generation logs to verify that at least two individuals performed the key-generation processes.</p>	Key-generation logs examined:	<Report Findings Here>
<p>6B-2.1.3 Devices used for the generation of clear-text key components that are output in the clear must be powered off when not in use. Logically partitioned devices used concurrently for other processes—e.g., providing services simultaneously to host systems, such as for transaction processing—must have key-generation capabilities disabled when not in use and other activities are continuing.</p>		
<p>6B-2.1.3 Examine documented procedures for all key-generation methods. Verify procedures require that:</p> <ul style="list-style-type: none"> Key-generation devices that generate clear-text key components are powered off when not in use; or If logically partitioned for concurrent use in other processes, the key-generation capabilities are disabled when not in use and other activities are continuing. 	Documented key-generation procedures reviewed:	<Report Findings Here>
<p>6B-2.1.4 Key-generation equipment used for generation of clear-text key components must not show any signs of tampering (e.g., unnecessary cables).</p>		
<p>6B-2.1.4.a Review documented procedures for all key-generation methods to verify they include inspections of the key-generation equipment for evidence of tampering, prior to use.</p>	Documented key-generation procedures reviewed:	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6B-2.1.4.b Observe key-generation set-up processes for all key types to verify that key-generation equipment is inspected prior to use, to ensure equipment does not show any signs of tampering.	Describe how the key-generation set-up processes observed verified that key-generation equipment is inspected prior to use to ensure equipment does not show any signs of tampering: <Report Findings Here>	
6B-2.1.5 Physical security controls must be used to prevent unauthorized personnel from accessing the key-generation area. It must not be feasible to observe the key-component/key-generation process whereby clear-text keying material is observable either directly or via camera monitoring.		
6B-2.1.5.a Examine documentation to verify that physical security controls are defined to ensure the key component/key-generation process cannot be observed or accessed by unauthorized personnel.	Documentation reviewed:	<Report Findings Here>
6B-2.1.5.b Observe the physical security controls to verify that key-component/key-generation process cannot be observed or accessed by unauthorized personnel.	Describe how the physical security controls observed verified that the key-component/key-generation process cannot be observed or accessed by unauthorized personnel: <Report Findings Here>	
6B-2.2 Multi-use/purpose computing systems shall not be used for key generation where any clear-text secret key or private key, or key component thereof, appears in unprotected memory. <i>For example, it is not permitted for the cryptographic key to be passed through the memory of a computer unless it has been specifically tasked for the sole purpose of key generation/loading. Computers that have been specifically purposed and used solely for key generation/loading are permitted for use if all other requirements can be met, including those of Requirement 6B-1 and the controls defined in Requirements at 6D-2 of Annex B. Additionally, this requirement excludes from its scope computers used only for administration of SCDs, or key-generation devices where they have no ability to access clear-text cryptographic keys or components. Single-purpose computers with an installed SCD where clear keying material is injected directly from a secure port on the SCD to the target (e.g., a POI device) meet this requirement. Where the components pass through unprotected memory of the PC, it must meet Requirement 6D-2 of Annex B.</i>		
6B-2.2.a Examine documented procedures to verify that multi-purpose computing systems are not used for key generation where any clear-text secret or private key or component thereof appears in unprotected memory.	Documented procedures reviewed:	<Report Findings Here>
6B-2.2.b Observe the generation process and review vendor documentation for each type of key to verify that multi-purpose computing systems are not used for key generation where any clear-text secret or private key or component thereof appears in unprotected memory.	Vendor documentation reviewed for each type of key:	<Report Findings Here>
	Describe how the generation process observed for each type of key verified that multi-purpose computing systems are not used for key generation where any clear-text secret or private key or component thereof appears in unprotected memory:	
	<Report Findings Here>	
6B-2.3 Printed key components must be printed within blind mailers or sealed immediately after printing to ensure that: <ul style="list-style-type: none"> • Only approved key custodians can observe their own key component. • Tampering can be visually detected. Printers used for this purpose must not be used for other purposes.		

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>6B-2.3.a Examine documented procedures for printed key components and verify that they require printed key components to be printed within blind mailers or sealed immediately after printing such that:</p> <ul style="list-style-type: none"> • Only approved key custodians can observe their own key component. • Tampering can be visually detected. 	Documented procedures for printed key components reviewed:	<Report Findings Here>
<p>6B-2.3.b Observe processes for printing key components to verify that key components are printed within blind mailers or sealed immediately after printing, such that no one but the authorized custodian ever has physical access to the output.</p>	Describe how the processes observed for printing key components verified that key components are printed within blind mailers or sealed immediately after printing, such that no one but the authorized custodian ever has physical access to the output:	<Report Findings Here>
<p>6B-2.3.c Observe blind mailers or other sealed containers used for key components to verify that tampering can be visually detected.</p>	Describe how blind mailers or other sealed containers used for key components verified that tampering can be visually detected:	<Report Findings Here>
<p>6B-2.4 Any residue that may contain clear-text keys or components must be destroyed or securely deleted—depending on media—immediately after generation of that key to prevent disclosure of a key or the disclosure of a key component to an unauthorized individual. <i>Examples of where such key residue may exist include (but are not limited to):</i></p> <ul style="list-style-type: none"> • <i>Printing material, including ribbons and paper waste</i> • <i>Memory storage of a key-loading device, after loading the key to a different device or system</i> • <i>Other types of displaying or recording</i> 		
<p>6B-2.4.a Examine documented procedures to identify all locations where key residue may exist. Verify procedures are implemented to ensure the following:</p> <ul style="list-style-type: none"> • Any residue that may contain clear-text keys or components is destroyed or securely deleted immediately after generation. • If a key is generated in a separate device before being exported into the end-use device, confirm that the key and all related critical security parameters (e.g., secret seeds) are deleted (zeroized) from the generation and/or injection device immediately after the transfer to the device that will use the key. 	Documented procedures reviewed:	<Report Findings Here>

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6B-2.4.b Observe the destruction process of the identified key residue and verify the following:</p> <ul style="list-style-type: none"> Any residue that may contain clear-text keys or components is destroyed or securely deleted immediately after generation. If a key is generated in a separate device before being exported into the end-use device, confirm that the key and all related critical security parameters (e.g., secret seeds) are deleted (zeroized) from the generation and/or injection device immediately after the transfer to the device that will use the key. 	Describe how the destruction process of the identified key residue verified that any residue that may contain clear-text keys or components is destroyed or securely deleted immediately after generation:	
	<Report Findings Here>	
	If a key is generated in a separate device before being exported into the end-use device, describe how the destruction process of the identified key residue verified that the key and all related critical security parameters are deleted from the generation and/or injection device immediately after the transfer to the device that will use the key:	
<Report Findings Here>		
<p>6B-2.5 Asymmetric-key pairs must either be:</p> <ul style="list-style-type: none"> Generated by the device that will use the key pair; or If generated externally, the key pair and all related critical security parameters (e.g., secret seeds) must be deleted (zeroized) immediately after the transfer to the device that will use the key pair 		
<p>6B-2.5.a Examine documented procedures for asymmetric-key generation to confirm that procedures are defined to ensure that asymmetric-key pairs are either:</p> <ul style="list-style-type: none"> Generated by the device that will use the key pair, or If generated externally, the key pair and all related critical security parameters are deleted (zeroized) immediately after the transfer to the device that will use the key pair. 	Documented procedures for asymmetric-key generation reviewed:	<Report Findings Here>
<p>6B-2.5.b Observe key-generation processes to verify that asymmetric-key pairs are either:</p> <ul style="list-style-type: none"> Generated by the device that will use the key pair, or If generated externally, the key pair and all related critical security parameters are deleted (e.g., zeroized) immediately after the transfer to the device that will use the key pair. 	Describe how the key-generation processes observed verified that asymmetric-key pairs are either:	
	<ul style="list-style-type: none"> Generated by the device that will use the key pair, or If generated externally, the key pair and all related critical security parameters are deleted (e.g., zeroized) immediately after the transfer to the device that will use the key pair. 	
<Report Findings Here>		

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6B-2.6 Policy and procedures must exist to ensure that clear-text private or secret keys or their components are prohibited from being transmitted across insecure channels. These include but are not limited to:</p> <ul style="list-style-type: none"> • Dictating verbally keys or components • Recording key or component values on voicemail • Faxing, e-mailing, or otherwise conveying clear-text private or secret keys or components • Conveying clear-text private or secret key components without containing them within tamper-evident, authenticable packaging • Writing key or component values into startup instructions • Affixing (e.g., taping) key or component values to or inside devices • Writing key or component values in procedure manuals 		
<p>6B-2.6.a Examine documented policy and procedures to verify that clear-text private or secret keys or their components are prohibited from being transmitted across insecure channels, including but not limited to:</p> <ul style="list-style-type: none"> • Dictating verbally keys or components • Recording key or component values on voicemail • Faxing, e-mailing, or otherwise conveying clear-text private or secret keys or components • Conveying clear-text private or secret key components without containing them within tamper-evident, authenticable packaging • Writing key or component values into startup instructions • Affixing (e.g., taping) key or component values to or inside devices • Writing key or component values in procedure manual 	Documented policy and procedures reviewed:	<Report Findings Here>
<p>6B-2.6.b From observation of key-management processes verify that key components are not transmitted across insecure channels, including but not limited to:</p> <ul style="list-style-type: none"> • Dictating verbally keys or components • Recording key or component values on voicemail • Faxing, e-mailing, or otherwise conveying clear-text private or secret keys or components • Conveying clear-text private or secret key components without containing them within tamper-evident, authenticable packaging • Writing key or component values into startup instructions • Affixing (e.g., taping) key or component values to or inside devices • Writing key or component values in procedure manual 	Describe how the key-management processes observed verified that key components are not transmitted across insecure channels, including but not limited to:	<ul style="list-style-type: none"> • Dictating verbally keys or components • Recording key or component values on voicemail • Faxing, e-mailing, or otherwise conveying clear-text private or secret keys or components • Conveying clear-text private or secret key components without containing them within tamper-evident, authenticable packaging • Writing key or component values into startup instructions • Affixing (e.g., taping) key or component values to or inside devices • Writing key or component values in procedure manual
<p>6B-3.1 Written key-generation procedures must exist, and all affected parties (key custodians, supervisory staff, technical management, etc.) must be aware of these procedures. Procedures for creating all keys must be documented.</p>	<Report Findings Here>	

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6B-3.1.a Examine documented key-generation procedures to confirm that they include all aspects of key-generation operations.	Documented key-generation procedures reviewed:	<Report Findings Here>
6B-3.1.b Interview those responsible for the key-generation processes (including key custodians, supervisory staff, technical management, etc.) to verify that the documented procedures are known and understood by all affected parties.	Responsible personnel interviewed:	<Report Findings Here>
6B-3.1.c Observe key-generation ceremonies, whether actual or for demonstration purposes, and verify that the documented procedures are demonstrably in use.	Describe how the actual or demonstrative key-generation ceremonies verified that the documented procedures are demonstrably in use:	
	<Report Findings Here>	
6B-3.2 Logs must exist for the generation of higher-level keys, such as KEKs exchanged with other organizations, and MFKs and BDks.		
6B-3.2.a Examine documented key-generation procedures to verify that key-generation events for higher-level keys (e.g., KEKs shared with other organizations or otherwise manually loaded as components and MFKs and BDks) are logged.	Documented key-generation procedures reviewed:	<Report Findings Here>
6B-3.2.b Observe demonstrations for the generation of higher-level keys to verify that all key-generation events are logged.	Describe how the demonstrations for the generation of higher-level keys verified that all key-generation events are logged:	
	<Report Findings Here>	
6B-3.2.c Examine logs of key generation to verify that exchanges of higher-level keys with other organizations have been recorded.	Key generation logs examined:	<Report Findings Here>
<p>6C-1.1 Keys must be transferred either encrypted or within an SCD. If clear-text outside of an SCD as two or more components using different communication channels.</p> <p>Clear-text key components may be transferred in SCDs or using tamper-evident, authenticable packaging.</p> <ul style="list-style-type: none"> • Where key components are transmitted in clear-text using pre-numbered, tamper-evident, authenticable mailers: <ul style="list-style-type: none"> – Components/shares must be conveyed using at least two separate communication channels, such as different courier services. Components/shares sufficient to form the key must not be conveyed using the same communication channel. – Ensure that details of the serial number of the package are conveyed separately from the package itself. – Ensure that that documented procedures exist and are followed to require that the serial numbers be verified prior to the usage of the keying material. • Where an SCD is used for components, the mechanisms or data (e.g., PIN) to obtain the key component from the SCD must be conveyed using a separate communication from the SCD channel, or it must be conveyed in the same manner as a paper component. SCDs must be inspected for signs of tampering. • Where an SCD (HSM or KLD) is conveyed with pre-loaded secret and/or private keys, the SCD must require dual control mechanisms to become operational. Those mechanisms must not be conveyed using the same communication channel as the SCD. SCDs must be inspected for signs of tampering. <p>Components of encryption keys must be transferred using different communication channels, such as different courier services. It is not sufficient to send key components for a specific key on different days using the same communication channel.</p>		
6C-1.1.a Determine whether keys are transmitted encrypted as clear-text components, or within an SCD.	Identify the P2PE Assessor who determined whether keys are transmitted encrypted as clear-text components or within an SCD:	<Report Findings Here>

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>6C-1.1.b If key components are ever transmitted in clear-text using pre-numbered, tamper-evident, authenticable mailers, perform the following:</p> <ul style="list-style-type: none"> Examine documented procedures to verify they define how details of the serial number are transmitted separately from the package itself. Observe the method used to transport clear-text key components using tamper-evident mailers, and interview responsible personnel to verify that details of the serial number of the package are transmitted separately from the package itself. Examine documented procedures to verify that cryptographic-key components are transferred using different communications channels. Examine records of key conveyances and interview responsible personnel to verify that cryptographic key components are transferred using different communications channels. Examine documented procedures to verify that serial numbers are verified prior to the usage of the keying material. 	Documented procedures reviewed:	<Report Findings Here>
	Records of key conveyances examined:	<Report Findings Here>
	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the method used to transport clear-text key components using tamper-evident mailers verified that details of the serial number of the package are transmitted separately from the package itself:	
	<Report Findings Here>	
<p>6C-1.1.b Where an SCD is used, perform the following:</p> <ul style="list-style-type: none"> Examine documented procedures to verify that the mechanisms to obtain the keying material are conveyed using separate communication channels. Examine documented procedures to verify that the SCD is inspected to ensure that there are not any signs of tampering. Examine records of key transfers and interview responsible personnel to verify that the mechanisms to obtain the keying material are conveyed using separate communication channels. 	Documented procedures reviewed:	<Report Findings Here>
	Records of key transfers examined:	<Report Findings Here>
	Responsible personnel interviewed:	<Report Findings Here>
<p>6C-1.2 A person with access to one component or share of a secret or private key, or to the media conveying this value, must not have access to other components or shares of this key or to any other medium containing other components or shares of this key that are sufficient to form the necessary threshold to derive the key. <i>E.g., in an m-of-n scheme (which must use a recognized secret-sharing scheme such as Shamir), such that any three key components or shares (i.e., m = 3) can be used to derive the key, no single individual can have access to more than two components/shares.</i></p>		

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>6C-1.2.a Examine documented procedures to verify they include controls to ensure that no single person can ever have access to components or shares of this key or to any other medium containing other components or shares of this key that are sufficient to form the necessary threshold to derive the key. Verify procedures include:</p> <ul style="list-style-type: none"> Any person with access to one component/share of a key must not have access to other components/shares of this key, or to any other medium conveying any other component or shares sufficient to form the necessary threshold to derive the key. Any person with access to the media conveying a component/share of a key must not have access to other components/shares of this key, or to any other medium conveying any other component of this key that is sufficient to form the necessary threshold to derive the key. 	Documented procedures reviewed:	<Report Findings Here>
	<p>6C-1.2.b Observe key-transfer processes and interview personnel to verify that controls are implemented to ensure that no single person can ever have access to components or shares of this key or to any other medium containing other components or shares of this key that are sufficient to form the necessary threshold to derive the key. Verify the implemented controls ensure the following:</p> <ul style="list-style-type: none"> An individual with access to a key component or key share does not have access to other components/shares of this key or to any other medium conveying any other components or shares of this key that are sufficient to form the necessary threshold to derive the key. Any person with access to the media conveying a key component or key share must not have access to other components/shares of this key or to any other medium conveying any other components or shares of this key that are sufficient to form the necessary threshold to derive the key. 	Personnel interviewed:
<p>6C-1.2.c Examine documented procedures and interview responsible personnel to verify that the method used does not allow for any personnel to have access to all components.</p>	Documented procedures reviewed:	<Report Findings Here>
	Responsible personnel interviewed:	<Report Findings Here>
<p>6C-1.2.d Observe the method used to transport key components to verify that the method does not allow for any personnel to have access to all components.</p>	Describe how the implemented controls for the key-transfer processes observed verified that:	
	<ul style="list-style-type: none"> An individual with access to a key component or key share does not have access to other components/shares of this key or to any other medium conveying any other components or shares of this key that are sufficient to form the necessary threshold to derive the key. Any person with access to the media conveying a key component or key share must not have access to other components/shares of this key or to any other medium conveying any other components or shares of this key that are sufficient to form the necessary threshold to derive the key. 	
<p>6C-1.3 E-mail shall not be used for the conveyance of secret or private keys or their components, even if encrypted, unless the key (or component) has already been encrypted in accordance with these requirements—i.e., in an SCD. This is due to the existence of these key values in unprotected memory just prior to encryption or subsequent to decryption. In addition, corporate e-mail systems allow the recovery by support staff of the clear-text of any encrypted text or files conveyed through those systems. Other similar mechanisms, such as SMS, fax, or telephone shall not be used to convey clear-text key values.</p>	Describe how the method used to transport key components verified that it does not allow for any personnel to have access to all components:	
	<Report Findings Here>	

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
6C-1.3 Validate through interviews, observation, and logs that e-mail, SMS, fax, telephone, or similar communication is not used as means to convey secret or private keys or key components.	Personnel interviewed:	<Report Findings Here>
	Logs reviewed:	<Report Findings Here>
	Describe the observations that confirmed that e-mail, SMS, fax, telephone, or similar communication is not used as means to convey secret or private keys or key components:	
	<Report Findings Here>	
6C-1.4 Public keys must be conveyed in a manner that protects their integrity and authenticity. Examples of acceptable methods include: <ul style="list-style-type: none"> • Use of public-key certificates as defined in Annex A that are created by a trusted CA that meets the requirements of Annex A • A hash of the public key sent by a separate channel (e.g., mail) • Using a MAC (message authentication code) created using the algorithm defined in ISO 16609 • Within an SCD Note: Self-signed certificates must not be used as the sole method of authentication.		
6C-1.4.a For all methods used to convey public keys, perform the following:	Identify the P2PE Assessor who verified all methods used to convey public keys:	<Report Findings Here>
6C-1.4.b Examine documented procedures for conveying public keys to verify that methods are defined to convey public keys in a manner that protects their integrity and authenticity, such as: <ul style="list-style-type: none"> • Use of public-key certificates created by a trusted CA that meets the requirements of Annex A • A hash of the public key sent by a separate channel (e.g., mail) • Using a MAC (message authentication code) created using the algorithm defined in ISO 16609 • Within an SCD 	Documented procedures reviewed:	<Report Findings Here>
6C-1.4.c Observe the process for conveying public keys and interview responsible personnel to verify that self-signed certificates are not be used as the sole method of authentication.	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the process for conveying public keys verified that self-signed certificates are not used as the sole method of authentication:	
	<Report Findings Here>	

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6C-1.4.d Observe the process for conveying public keys and interview responsible personnel to verify that the implemented method ensures public keys are conveyed in a manner that protects their integrity and authenticity.</p>	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the process for conveying public keys verified that the implemented method ensures public keys are conveyed in a manner that protects their integrity and authenticity:	
	<Report Findings Here>	
<p>6C-2.1 Any single clear-text secret or private key component/share must at all times be either:</p> <ul style="list-style-type: none"> • Under the continuous supervision of a person with authorized access to this component, or • Locked in a security container (including pre-numbered, tamper-evident, authenticable packaging) in such a way that it can be obtained only by a person with authorized access to it, unauthorized access to it would be detected, or • Contained within a physically secure SCD. <p>Note: No single person shall be able to access or use all components or a quorum of shares of a single secret or private cryptographic key.</p>		
<p>6C-2.1.a Examine documented procedures for transmission, conveyance, or movement of keys between any two locations to verify that any single clear-text secret or private key component/share must at all times be either:</p> <ul style="list-style-type: none"> • Under the continuous supervision of a person with authorized access to this component • Locked in a security container (including pre-numbered, tamper-evident, authenticable packaging) in such a way that it can be obtained only by a person with authorized access to it, unauthorized access to it would be detected, or • Contained within a physically secure SCD. 	Documented procedures reviewed:	<Report Findings Here>
<p>6C-2.1.b Observe key-management processes and interview responsible personnel to verify processes are implemented to ensure that any single clear-text secret or private key component/share is at all times either:</p> <ul style="list-style-type: none"> • Under the continuous supervision of a person with authorized access to this component • Locked in a security container (including pre-numbered tamper-evident, authenticable packaging) in such a way that it can be obtained only by a person with authorized access to it, unauthorized access to it would be detected, or • Contained within a physically secure SCD. 	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the key-management processes observed verified that processes are implemented to ensure that any single clear-text secret or private key component/share is at all times either:	
	<ul style="list-style-type: none"> • Under the continuous supervision of a person with authorized access to this component • Locked in a security container (including pre-numbered tamper-evident, authenticable packaging) in such a way that it can be obtained only by a person with authorized access to it, unauthorized access to it would be detected, or • Contained within a physically secure SCD. 	
<Report Findings Here>		

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
6C-2.2 Packaging or mailers (i.e., pre-numbered, tamper-evident packaging) containing clear-text key components are examined for evidence of tampering before being opened. Any sign of package tampering must result in the destruction and replacement of: <ul style="list-style-type: none"> • The set of components • Any keys encrypted under this (combined) key 		
6C-2.2.a Verify documented procedures include requirements for all packaging or mailers containing clear-text key components to be examined for evidence of tampering before being opened.	Documented procedures reviewed:	<Report Findings Here>
6C-2.2.b Interview responsible personnel and observe processes to verify that all packaging or mailers containing clear-text key components are examined for evidence of tampering before being opened.	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the observed processes verified that all packaging or mailers containing clear-text key components are examined for evidence of tampering before being opened:	
	<Report Findings Here>	
6C-2.2.c Verify documented procedures require that any sign of package tampering results in the destruction and replacement of both: <ul style="list-style-type: none"> • The set of components • Any keys encrypted under this (combined) key 	Documented procedures reviewed:	<Report Findings Here>
6C-2.2.d Interview responsible personnel and observe processes to verify that if a package shows signs of tampering, processes are implemented that result in the destruction and replacement of both: <ul style="list-style-type: none"> • The set of components • Any keys encrypted under this (combined) key 	Responsible personnel interviewed	
	Describe how the observed process verified that if a package shows signs of tampering, processes are implemented that result in the destruction and replacement of both: <ul style="list-style-type: none"> • The set of components • Any keys encrypted under this (combined) key 	
	<Report Findings Here>	
6C-2.3 Only the authorized key custodian (and designated backup(s)) shall have physical access to a key component prior to transmittal or upon receipt of a component.		
6C-2.3.a Verify that a list(s) of key custodians (and designated backup(s)) authorized to have physical access to key components prior to transmittal or upon receipt of a component is defined and documented.	Documentation reviewed:	<Report Findings Here>
6C-2.3.b Observe implemented access controls and processes to verify that only those authorized key custodians (and designated backup(s)) have physical access to key components prior to transmittal or upon receipt.	Describe the implemented access controls and processes observed that verified that only those authorized key custodians (and designated backup(s)) have physical access to key components prior to transmittal or upon receipt:	
	<Report Findings Here>	

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6C-2.3.c Examine physical access logs (e.g., to security containers for key components) to verify that only the authorized individual(s) have access to each component.	Physical access logs examined:	<Report Findings Here>
6C-2.4 Mechanisms must exist to ensure that only authorized custodians: <ul style="list-style-type: none"> Place key components into pre-numbered tamper-evident, authenticable packaging for transmittal. Check tamper-evident packaging upon receipt for signs of tamper prior to opening tamper-evident authenticable packaging containing key components. Check the serial number of the tamper-evident packaging upon receipt of a component package. 		
6C-2.4.a Verify that a list(s) of key custodians authorized to perform the following activities is defined and documented: <ul style="list-style-type: none"> Place the key component into pre-numbered tamper-evident packaging for transmittal. Upon receipt, check the tamper-evident packaging for signs of tamper prior to opening the tamper-evident packaging containing the key component. Check the serial number of the tamper-evident packaging upon receipt of a component package. 	Documentation reviewed:	<Report Findings Here>
6C-2.4.b Observe implemented mechanisms and processes to verify that only the authorized key custodians can perform the following: <ul style="list-style-type: none"> Place the key component into pre-numbered tamper-evident packaging for transmittal. Upon receipt, check the tamper-evident packaging for signs of tamper prior to opening the tamper-evident packaging containing the key component. Check the serial number of the tamper-evident packaging upon receipt of a component package. 	Describe how the implemented mechanisms and processes observed verified that only the authorized key custodians can perform the following: <ul style="list-style-type: none"> Place the key component into pre-numbered tamper-evident packaging for transmittal. Upon receipt, check the tamper-evident packaging for signs of tamper prior to opening the tamper-evident packaging containing the key component. Check the serial number of the tamper-evident packaging upon receipt of a component package. 	<Report Findings Here>
6C-2.5 Pre-numbered, tamper-evident, authenticable bags shall be used for the conveyance of clear-text key components. Out-of-band mechanisms must be used to verify receipt of the appropriate bag numbers. Note: <i>Numbered courier bags are not sufficient for this purpose</i>		
6C-2.5 Verify that pre-numbered, tamper-evident, authenticable bags are used for the conveyance of clear-text key components and perform the following: <ul style="list-style-type: none"> Examine documented procedures to verify they define how details of the serial number are transmitted separately from the package itself. Observe the method used to transport clear-text key components using tamper-evident mailers, and interview responsible personnel to verify that details of the serial number of the package are transmitted separately from the package itself. 	Documented procedures reviewed:	<Report Findings Here>
	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the method used to transport clear-text key components using tamper-evident mailers verified that details of the serial number of the package are transmitted separately from the package itself:	<Report Findings Here>

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6C-3.1 All key-encryption keys used to encrypt for transmittal or conveyance of other cryptographic keys must be (at least) as strong as the key being sent, as delineated in Annex C, except as noted below for RSA keys used for key transport.</p> <ul style="list-style-type: none"> • DEA keys used for encrypting keys must be at least double-length keys (have bit strength of 80 bits) and use the TDEA in an encrypt, decrypt, encrypt mode of operation for key-encipherment. • A double- or triple-length DEA key must not be encrypted with a DEA key of lesser strength. • TDEA keys shall not be used to protect AES keys. • TDEA keys shall not be used to encrypt keys greater in strength than 112 bits. • RSA keys encrypting keys greater in strength than 80 bits shall have bit strength of at least 112 bits. 		
<p>6C-3.1.a Examine documented procedures to verify that all keys used to transmit or convey other cryptographic keys must be (at least) as strong as any key transmitted or conveyed, as delineated in Annex C.</p>	Documented procedures reviewed:	<Report Findings Here>
<p>6C-3.1.b Observe key-generation processes to verify that all keys used to transmit or convey other cryptographic keys are at least as strong as any key transmitted or conveyed, as delineated in Annex C.</p> <ul style="list-style-type: none"> • Interview appropriate personnel and examine documented procedures for the creation of these keys. • Using the table in Annex C, validate the respective key sizes for DEA, RSA, Elliptic Curve, DSA, and Diffie Hellman algorithms where used for key encryption. • Verify that: <ul style="list-style-type: none"> – DEA keys used for encrypting keys must be at least double-length keys (have bit strength of 80 bits) and use the TDEA in an encrypt, decrypt, encrypt mode of operation for key-encipherment. – A double- or triple-length DEA key must not be encrypted with a DEA key of lesser strength. – TDEA keys are not used to protect AES keys. – TDEA keys are not be used to encrypt keys greater in strength than 112 bits. – RSA keys encrypting keys greater in strength than 80 bits have bit strength at least 112 bits. 	Appropriate personnel interviewed:	<Report Findings Here>
	Documented procedures reviewed:	<Report Findings Here>
	Describe how key-generation processes observed verified that all keys used to transmit or convey other cryptographic keys are at least as strong as any key transmitted or conveyed, as delineated in Annex C	
	<Report Findings Here>	
<p>6C-1.c Examine system documentation and configuration files to validate the above, including HSM settings.</p>	System documentation reviewed:	<Report Findings Here>
	Describe how the configuration files observed validated the above, including HSM settings:	
	<Report Findings Here>	
<p>6C-4.1 Written procedures must exist and be known to all affected parties.</p>		
<p>6C-4.1.a Verify documented procedures exist for all key transmission and conveyance processing.</p>	Documented procedures reviewed:	<Report Findings Here>

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6C-4.1.b Interview responsible personnel to verify that the documented procedures are known and understood by all affected parties for key transmission and conveyance processing.	Responsible personnel interviewed:	<Report Findings Here>
6C-4.2 Methods used for the conveyance or receipt of keys must be documented.		
6C-4.2 Verify documented procedures include all methods used for the conveyance or receipt of keys.	Documented procedures reviewed:	<Report Findings Here>
6D-1.1 The loading of secret or private keys, when from the individual key components or shares, must be performed using the principles of dual control and split knowledge. <i>Note: Manual key loading may involve the use of media such as paper, smart cards, or other physical tokens.</i>		
6D-1.1.a Review documented process to load each key type (MFK, TMK, PEK, etc.) from components to ensure dual control and split knowledge are required.	Documented process reviewed:	<Report Findings Here>
6D-1.1.b Interview appropriate personnel to determine the number of key components for each manually loaded key, the length of the key components, and the methodology used to form the key.	Appropriate personnel interviewed:	<Report Findings Here>
6D-1.1.c Witness a structured walk-through/demonstration of various key-loading processes for all key types (MFKs, AWKs, TMKs, PEKs, etc.). Verify the number and length of the key components to information provided through verbal discussion and written documentation.	Describe how the structured walk-through/demonstration verified that the number and length of the key components is consistent with information provided through verbal discussion and written documentation:	
	<Report Findings Here>	
6D-1.1.d Verify that the process includes the entry of individual key components by the designated key custodians.	Describe how the structured walk-through/demonstration verified that the process includes the entry of individual key components by the designated key custodians:	
	<Report Findings Here>	
6D-1.1.e Ensure key-loading devices can only be accessed and used under dual control.	Describe how the structured walk-through/demonstration verified that key-loading devices can only be accessed and used under dual control:	
	<Report Findings Here>	
6D-1.2 Procedures must be established that will prohibit any one person from having access to components sufficient to form an encryption key when components are removed from and returned to storage for key loading.		
6D-1.2. Examine logs of access to security containers for key components to verify that only the authorized custodian(s) have accessed. Compare the number on the current tamper-evident, authenticable bag for each component to the last log entry for that component.	Access logs examined:	<Report Findings Here>

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6D-1.3 The loading of clear-text cryptographic keys using a key-loading device requires dual control to authorize any key-loading session. It shall not be possible for a single person to use the key-loading device to load clear keys alone. Dual control must be implemented using one or more of, but not limited to, the following techniques:</p> <ul style="list-style-type: none"> • Two or more passwords of five characters or more (vendor default values must be changed) • Multiple cryptographic tokens (such as smartcards), or physical keys • Physical access controls <p><i>Note that for devices that do not support two or more passwords, this may be achieved by splitting the single password used by the device into two halves, each half controlled by a separate authorized custodian.</i></p>		
<p>6D-1.3.a Examine documented procedures for loading of clear-text cryptographic keys to verify they require dual control to authorize any key-loading session.</p>	Documented procedures reviewed:	<Report Findings Here>
<p>6D-1.3.b For all types of production SCDs, observe processes for loading clear-text cryptographic keys to verify that dual control is required to authorize any key-loading session. Verify that any passwords used are a minimum of five characters.</p>	Describe how the observed processes for loading clear-text cryptographic keys for all types of production SCDs verified that dual control is required to authorize any key-loading sessions and that any passwords used are a minimum of five characters:	<Report Findings Here>
<p>6D-1.3.c Examine documented records of key-loading processes to verify the presence of two authorized persons during each type of key-loading activity.</p>	Documented records of key-loading processes reviewed:	<Report Findings Here>
<p>6D-1.3.d Ensure that any default dual-control mechanisms (e.g., default passwords—usually printed in the vendor's manual—in a key-loading device) have been disabled or changed.</p>	Describe how default dual-control mechanisms were verified to have been disabled or changed:	<Report Findings Here>
<p>6D-1.4 Key components for symmetric keys must be combined using a process such that no active bit of the key can be determined without knowledge of the remaining components (e.g., via XOR'ing of full-length components). The resulting key must only exist within the SCD. <i>Note that concatenation of key components together to form the key is unacceptable; e.g., concatenating two 8-hexadecimal character halves to form a 16-hexadecimal secret key.</i></p>		
<p>6D-1.4.a Examine documented procedures for combining symmetric-key components and observe processes to verify that key components are combined using a process such that no active bit of the key can be determined without knowledge of the remaining components.</p>	Documented procedures reviewed:	<Report Findings Here>
<p>6D-1.4.b Examine key-component lengths or device configuration settings to verify that key components used to create a key are the same length as the resultant key.</p>	Describe how key-component lengths or device configuration settings verified that key components used to create a key are the same length as the resultant key:	<Report Findings Here>
<p>6D-1.5 Hardware security module (HSM) Master File Keys, including those generated internal to the HSM and never exported, must be at least double-length keys and use the TDEA (including parity bits) or AES using a key size of at least 128 bits.</p>		

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6D-1.5 Examine vendor documentation describing options for how the HSM MFK is created. Corroborate this via observation of processes, with information gathered during the interview process, and procedural documentation provided by the entity under review.	Vendor documentation reviewed:	<Report Findings Here>
	Identify the P2PE Assessor who corroborated how the HSM MFK is created:	<Report Findings Here>
6D-1.6 Any other SCD loaded with the same key components must combine all entered key components using the identical process.		
6D-1.6 Through examination of documented procedures, interviews, and observation, confirm that any devices that are loaded with the same key components use the same mathematical process to derive the final key.	Documented procedures reviewed:	<Report Findings Here>
	Personnel interviewed:	<Report Findings Here>
	Describe the observations that confirmed that any devices that are loaded with the same key components use the same mathematical process to derive the final key:	
	<Report Findings Here>	
6D-1.7 The initial terminal master key (TMK) must be loaded to the device using either asymmetric key-loading techniques or manual techniques—e.g., the device keypad, IC cards, key-loading device, etc. Subsequent loading of the terminal master key may use techniques described in this documents such as: <ul style="list-style-type: none"> • Asymmetric techniques • Manual techniques • The existing TMK to encrypt the replacement TMK for download Keys shall not be reloaded by any methodology in the event of a compromised device, and must be withdrawn from use.		
6D-1.7.a Examine documented procedures for the loading of TMKs to verify that they require asymmetric key-loading techniques or manual techniques for initial loading.	Documented procedures reviewed:	<Report Findings Here>
6D-1.7.b Examine documented procedures to verify that keys are prohibited from reloading or reuse wherever suspected of being compromised and are withdrawn from use.	Documented procedures reviewed:	<Report Findings Here>
6D-1.8 If key-establishment protocols using public-key cryptography are used to remotely distribute secret keys, these must meet the requirements detailed in Annex A of this document. For example: A public-key technique for the distribution of symmetric secret keys must: <ul style="list-style-type: none"> • Use public and private key lengths that are in accordance with Annex C for the algorithm in question. • Use key-generation techniques that meet the current ANSI and ISO standards for the algorithm in question. • Provide for mutual device authentication for both the host and the POI device or host-to-host if applicable, including assurance to the host that the POI device actually has (or actually can) compute the session key, and that no entity other than the POI device specifically identified can possibly compute the session key. 		

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6D-1.8.a For techniques involving public-key cryptography, examine documentation and develop a schematic to illustrate the process, including the size and sources of the parameters involved, and the mechanisms utilized for mutual device authentication for both the host and the POI device.</p>	Documentation reviewed:	<Report Findings Here>
<p>6D 1.8.b If key-establishment protocols using public-key cryptography are used to remotely distribute secret keys, verify that the requirements detailed in Annex A of this document are met, including:</p> <ul style="list-style-type: none"> • Use of public and private key lengths that are in accordance with Annex C for the algorithm in question. • Use of key-generation techniques that meet the current ANSI and ISO standards for the algorithm in question. • Providing for mutual device authentication for both the host and the POI device or host-to-host if applicable. 	Identify the P2PE Assessor who confirms that requirements detailed in Annex A of this document are met where key-establishment protocols using public-key cryptography are used to remotely distribute secret keys:	<Report Findings Here>
<p>6D-2.1 Clear-text secret and private keys and key components must be transferred into an SCD only when it can be ensured that:</p> <ul style="list-style-type: none"> • Any cameras present in the environment must be positioned to ensure they cannot monitor the entering of clear-text key components. • There is not any mechanism at the interface between the conveyance medium and the SCD that might disclose the transferred keys. • The SCD must be inspected prior to use to ensure that it has not been subject to any prior tampering that could lead to the disclosure of clear-text keying material. • SCDs must be inspected to detect evidence of monitoring and to ensure dual control procedures are not circumvented during key loading. • An SCD must transfer a plaintext secret or private key only when at least two authorized individuals are uniquely identified by the device. 		
<p>6D-2.1 Observe key-loading environments, processes, and mechanisms (e.g., terminals, PIN pads, key guns, etc.) used to transfer keys and key components. Perform the following:</p> <ul style="list-style-type: none"> • Ensure cameras are positioned to ensure they cannot monitor the entering of clear-text key components. • Review documented procedures to determine that they require that keys and components are transferred into an SCD only after an inspection of the devices and mechanism; and verify they are followed by observing a demonstration that: <ul style="list-style-type: none"> – SCDs are inspected to detect evidence of monitoring and to ensure dual-control procedures are not circumvented during key loading. – An SCD transfers a plaintext secret or private key only when at least two authorized individuals are identified by the device. – There is not any mechanism at the interface (including cabling) between the conveyance medium and the SCD that might disclose the transferred keys. – The SCD is inspected to ensure it has not been subject to any prior tampering, which could lead to the disclosure of clear-text keying material. 	Documented procedures reviewed:	<Report Findings Here>
	Describe how the demonstration verified that	
	<ul style="list-style-type: none"> • SCDs are inspected to detect evidence of monitoring and to ensure dual-control procedures are not circumvented during key loading. • An SCD transfers a plaintext secret or private key only when at least two authorized individuals are identified by the device. • There is not any mechanism at the interface (including cabling) between the conveyance medium and the SCD that might disclose the transferred keys. • The SCD is inspected to ensure it has not been subject to any prior tampering, which could lead to the disclosure of clear-text keying material. 	
	<Report Findings Here>	

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6D-2.2 Only SCDs shall be used in the loading of clear-text secret or private keys or their components outside of a secure key-loading facility, as delineated in this requirement. For example, computer keyboards shall never be used for the loading of clear-text secret or private keys or their components.		
6D-2.2 Verify that only SCDs are used in the loading of clear-text secret or private keys or their components outside of a secure key-loading facility, as delineated in this requirement. For example, computer keyboards shall never be used for the loading of clear-text secret or private keys or their components.	Identify the P2PE Assessor who confirms that only SCDs are used in the loading of clear-text secret or private keys or their components outside of a secure key-loading facility, as delineated in this requirement:	<Report Findings Here>
6D-2.3 The loading of secret or private key components from electronic medium—e.g., smart card, thumb drive, fob or other devices used for data transport—to a cryptographic device (and verification of the correct receipt of the component, if applicable) results in either of the following <ul style="list-style-type: none"> The medium is placed into secure storage and managed under dual control (only if there is a possibility it will be required for future re-loading of the component into the cryptographic device); or All traces of the component are erased or otherwise destroyed from the electronic medium in accordance with Requirement 6F-4. 		
6D-2.3.a Examine documented procedures for the loading of secret or private key components from electronic medium to a cryptographic device. Verify that procedures define specific instructions to be followed as a result of key injection, including: <ul style="list-style-type: none"> Instructions for the medium to be placed into secure storage and managed under dual control (only if there is a possibility it will be required for future re-loading of the component into the cryptographic device); or Instructions to erase or otherwise destroy all traces of the component from the electronic medium. 	Documented procedures reviewed:	<Report Findings Here>
6D-2.3.b Observe key-loading processes to verify that the injection process results in one of the following: <ul style="list-style-type: none"> The medium used for key injection is placed into secure storage and managed under dual control (only if there is a possibility it will be required for future re-loading of the component into the cryptographic device); or All traces of the component are erased or otherwise destroyed from the electronic medium. 	Describe how the key-loading processes observed verified that the injection process results in one of the following: <ul style="list-style-type: none"> The medium used for key injection is placed into secure storage and managed under dual control (only if there is a possibility it will be required for future re-loading of the component into the cryptographic device); or All traces of the component are erased or otherwise destroyed from the electronic medium. 	<Report Findings Here>
6D-2.4 For secret or private keys transferred from the cryptographic hardware that generated the key to an electronic key-loading device:		
6D-2.4 Review documented procedures and observe processes for the use of key-loading devices. Perform the following:		
6D-2.4.1 The key-loading device must be a physically secure SCD, designed and implemented in such a way that any unauthorized disclosure of the key is prevented or detected.		
	Documented procedures reviewed:	<Report Findings Here>

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6D-2.4.1 Verify the key-loading device is a physically secure SCD, designed and implemented in such a way that any unauthorized disclosure of the key is prevented or detected.	Describe how processes for the use of key-loading devices verified that the key-loading device is a physically secure SCD, designed and implemented in such a way that any unauthorized disclosure of the key is prevented or detected:	
	<Report Findings Here>	
6D-2.4.2 The key-loading device must be under the supervision of a person authorized by management, or stored in a secure container such that no unauthorized person can have access to it.		
6D-2.4.2 Verify the key-loading device is under the supervision of a person authorized by management, or stored in a secure container such that no unauthorized person can have access to it.	Documented procedures reviewed:	<Report Findings Here>
	Describe how processes for the use of key-loading devices verified that the key-loading device is under the supervision of a person authorized by management, or stored in a secure container such that no unauthorized person can have access to it:	
	<Report Findings Here>	
6D-2.4.3 The key-loading device must be designed or controlled so that only authorized personnel under dual control can use and enable it to output a key into another SCD. Such personnel must ensure that a key-recording device is not inserted between the SCDs.		
6D-2.4.3.a Verify the key-loading device is designed or controlled so that only authorized personnel under dual control can use and enable it to output a key into another SCD.	Documented procedures reviewed:	<Report Findings Here>
	Describe how processes for the use of key-loading devices verified that the key-loading device is designed or controlled so that only authorized personnel under dual control can use and enable it to output a key into another SCD:	
	<Report Findings Here>	
6D-2.4.3.b Verify that authorized personnel inspect the key-loading device, prior to use to ensure that a key-recording device has not been inserted between the SCDs.	Documented procedures reviewed:	<Report Findings Here>
	Describe how processes for the use of key-loading devices verified that authorized personnel inspect the key-loading device, prior to use to ensure that a key-recording device has not been inserted between the SCDs:	
	<Report Findings Here>	
6D-2.4.4 The key-loading device must not retain any information that might disclose the key that was installed in the device or a key that it has successfully transferred.		

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
6D-2.4.4 Verify the key-loading device does not retain any information that might disclose the key that was installed in the device or a key that it has successfully transferred. For example, attempt to output the same value more than one time from the device or cause the device to display check values for its contents both before and after injection and compare.	Documented procedures reviewed:	<Report Findings Here>
	Describe how processes for the use of key-loading devices verified that the key-loading device does not retain any information that might disclose the key that was installed in the device or a key that it has successfully transferred:	
	<Report Findings Here>	
6D-2.5 Any media (electronic or otherwise) containing secret or private key components used for loading cryptographic keys must be maintained in a secure location and accessible only to authorized custodian(s). When removed from the secure storage location, media or devices containing key components or used for the injection of clear-text cryptographic keys must be in the physical possession of only the designated component holder(s), and only for the minimum practical time necessary to complete the key-loading process. The media upon which a component resides must be physically safeguarded at all times when removed from secure storage. Key components that can be read (e.g., those printed on paper or stored on magnetic cards, PROMs, or smartcards) must be managed so they are never used in a manner that would result in the component being displayed in clear text to a non-custodian for that component.		
6D-2.5.a Interview personnel and observe media locations to verify that the media is maintained in a secure location accessible only to custodian(s) authorized to access the key components.	Personnel interviewed:	<Report Findings Here>
	Media locations observed:	<Report Findings Here>
6D-2.5.b Examine documented procedures for removing media or devices containing key components—or that are otherwise used for the injection of cryptographic keys—from the secure storage location. Verify procedures include the following: <ul style="list-style-type: none"> • Requirement that media/devices be in the physical possession of only the designated component holder(s). • The media/devices are removed from secure storage only for the minimum practical time necessary to complete the key-loading process. 	Documented procedures reviewed:	<Report Findings Here>
6D-2.5.c Interview designated component holder(s) and examine key-management logs to verify that media or devices removed from secure storage are in the physical possession of only the designated component holder(s).	Designated component holder(s) interviewed:	<Report Findings Here>
	Key-management logs examined:	<Report Findings Here>
6D-2.5.d Interview key-injection personnel and examine logs for the removal of media/devices from secure storage to verify they are removed only for the minimum practical time necessary to complete the key-loading process.	Key-injection personnel interviewed:	<Report Findings Here>
	Logs examined:	<Report Findings Here>
6D-2.6 If the component is in human-readable form, it must be visible only to the designated component custodian and only for the duration of time required for this person to privately enter the key component into an SCD.		

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6D-2.6 Validate through interview and observation that if components are in human-readable form, they are visible only to designated component custodians and only for the duration of time required for this person to privately enter the key component into an SCD.	Personnel interviewed:	<Report Findings Here>
	Describe how it was verified that if components are in human-readable form, they are visible only to designated component custodians and only for the duration of time required for this person to privately enter the key component into an SCD:	
	<Report Findings Here>	
6D-2.7 Written or printed key component documents must not be opened until immediately prior to use.		
6D-2.7.a Review documented procedures and confirm that printed/written key component documents are not opened until immediately prior to use.	Documented procedures reviewed:	<Report Findings Here>
6D-2.7.b Observe key-loading processes and verify that printed/written key component documents are not opened until immediately prior to use.	Describe how the key-loading processes observed verified that printed/written key component documents are not opened until immediately prior to use:	
<Report Findings Here>		
6D-2.8 A person with access to any component or share of a secret or private key, or to the media conveying this value, must not have access to other components or shares of this key or to any other medium containing other components or shares of this key that are sufficient to form the necessary threshold to derive the key. <i>E.g., in an m-of-n scheme (which must use a recognized secret-sharing scheme such as Shamir), such that any three key components or shares (i.e., m = 3) can be used to derive the key, no single individual can have access to more than two components/shares.</i>		
6D-2.8.a Examine documented procedures for the use of key components to verify that procedures ensure that any individual custodian only has access to their assigned components and never has access to sufficient key components to reconstruct a cryptographic key.	Documented procedures reviewed:	<Report Findings Here>
6D-2.9.b Examine key-component access controls and access logs to verify that any single authorized custodian can only access their assigned component(s) and cannot access sufficient key components to reconstruct a cryptographic key.	Describe how key-component access controls and access logs verified that any single authorized custodian can only access their assigned component(s) and cannot access sufficient key components to reconstruct a cryptographic key:	
<Report Findings Here>		
6D-3.1 Any hardware and passwords used in the key-loading function or for the signing of authenticated applications must be controlled and maintained in a secure environment under dual control. Resources (e.g., passwords and associated hardware) must be managed such that no single individual has the capability to enable key loading of clear-text keys or their components. This is not to imply that individual access authentication mechanisms must be managed under dual control. Note: Where key-loading is performed for POI devices, the secure environment as defined in Annex B Requirement 6G-4.10 must additionally be met.		

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6D-3.1.a Examine documented procedures to verify they require the following: <ul style="list-style-type: none"> Any hardware used in the key-loading function or for the signing of authenticated applications must be controlled and maintained in a secure environment under dual control. Any resources (e.g., passwords and associated hardware) used in the key-loading function or for the signing of authenticated applications must be controlled and managed such that no single individual has the capability to enable key loading of clear-text keys or their components. 	Documented procedures reviewed:	<Report Findings Here>
6D-3.1.b Observe key-loading environments and controls to verify the following: <ul style="list-style-type: none"> All hardware used in the key-loading function or for the signing of authenticated applications is controlled and maintained in a secure environment under dual control. All resources (e.g., passwords and associated hardware) used for key-loading functions and for the signing of authenticated applications are controlled and managed such that no single individual has the capability to enable key loading. 	Describe how the key-loading environments and controls verified that: <ul style="list-style-type: none"> All hardware used in the key-loading function or for the signing of authenticated applications is controlled and maintained in a secure environment under dual control. All resources (e.g., passwords and associated hardware) used for key-loading functions and for the signing of authenticated applications are controlled and managed such that no single individual has the capability to enable key loading. 	<Report Findings Here>
6D-3.2 All cable attachments where clear-text keying material traverses must be examined before each key-loading or application signing operation to ensure they have not been tampered with or compromised.		
6D-3.2.a Review documented procedures to ensure they require that cable attachments be examined prior to key-loading functions or application signing operations.	Documented procedures reviewed:	<Report Findings Here>
6D-3.2.b Observe key-loading processes to verify that all cable attachments are properly examined prior to key-loading functions or application-signing operations.	Describe how the key-loading processes observed verified that all cable attachments are properly examined prior to key-loading functions or application-signing operations:	<Report Findings Here>
6D-3.3 Key-loading equipment usage must be monitored and a log of all key-loading and application-signing activities maintained for audit purposes, containing at a minimum date, time, personnel involved, and number of devices keys are loaded to.		
6D-3.3.a Observe key-loading and application-signing activities to verify that key-loading equipment usage is monitored.	Describe how the key-loading and application-signing activities observed verified that key-loading equipment usage is monitored:	<Report Findings Here>
6D-3.3.b Verify logs of all key-loading and application-signing activities are maintained and contain all required information.	Logs of key-loading and application-signing activities reviewed:	<Report Findings Here>
6D-3.4 Any physical tokens (e.g., brass keys or chip cards) used to enable key loading or the signing of authenticated applications must not be in the control or possession of any one individual who could use those tokens to load secret or private cryptographic keys or sign applications under single control. These tokens must be secured in a manner similar to key components, including the use of access-control logs for when removed or placed into secure storage.		

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6D-3.4.a Examine documented procedures for the use of physical tokens (e.g., brass keys or chip cards) to enable key loading or the signing of authenticated applications. Verify procedures require that physical tokens must not be in the control or possession of any one individual who could use those tokens to load secret or private cryptographic keys or sign applications under single control.	Documented procedures reviewed:	<Report Findings Here>
6D-3.4.b Inspect locations and controls for physical tokens to verify that tokens used to enable key loading or the signing of authenticated applications are not in the control or possession of any one individual who could use those tokens to load secret or private cryptographic keys or sign applications under single control.	Identify the P2PE Assessor who inspected locations and controls for physical tokens and confirms that tokens used to enable key loading or the signing of authenticated applications are not in the control or possession of any one individual who could use those tokens to load secret or private cryptographic keys or sign applications under single control:	<Report Findings Here>
6D-3.4.c Review storage locations for physical tokens to determine adequacy to ensure that only the authorized custodian(s) can access their specific tokens.	Identify the P2PE Assessor who confirms adequacy of reviewed storage locations for physical tokens to ensure that only the authorized custodian(s) can access their specific tokens:	<Report Findings Here>
6D-3.4.d Verify that access-control logs exist and are in use.	Access-control logs reviewed:	<Report Findings Here>
6D-3.4.e Reconcile storage contents to access-control logs.	Identify the P2PE Assessor who reconciled storage contents to access-control logs:	<Report Findings Here>
6D-3.5 Default passwords or PINs used to enforce dual-control mechanisms must be changed, and documented procedures must exist to require that these password/PINs be changed when assigned personnel change.		
6D-3.5.a Verify that documented procedures require default passwords or PINs used to enforce dual-control mechanisms are changed.	Documented procedures reviewed:	<Report Findings Here>
6D-3.5.b Verify that documented procedures exist to require that these passwords/PINs be changed when assigned personnel change.	Documented procedures reviewed:	<Report Findings Here>
6D-4.1 A cryptographic-based validation mechanism must be in place to ensure the authenticity and integrity of keys and/or their components (e.g., testing key check values, hashes, or other similar unique values that are based upon the keys or key components being loaded). See ISO 11568. Where check values are used, recorded or displayed key-component check values and key check values shall not exceed six hexadecimal characters in length.		
6D-4.1.a Examine documented procedures to verify a cryptographic-based validation mechanism is in place to ensure the authenticity and integrity of keys and/or components.	Documented procedures reviewed:	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6D-4.1.b Observe the key-loading processes to verify that the defined cryptographic-based validation mechanism used to ensure the authenticity and integrity of keys and components is being used and is verified by the applicable key custodians.	Describe how key-loading processes observed verified that the defined cryptographic-based validation mechanism used to ensure the authenticity and integrity of keys and components is being used and is verified by the applicable key custodians:	
	<Report Findings Here>	
6D-4.1.c Verify that the methods used for key validation are consistent with ISO 11568—e.g., when check values are used, they should return a value of no more than six hexadecimal characters.	Describe how the key-loading processes observed verified that the methods used for key validation are consistent with ISO 11568:	
	<Report Findings Here>	
6D-4.2 The public key must have its authenticity and integrity ensured. In order to ensure authenticity and integrity, a public key must be encrypted in accordance with Annex C, or if in plaintext form, must: <ul style="list-style-type: none"> • Be within a certificate as defined in Annex A, or • Be within a PKCS#10, or • Be within an SCD, or • Have a MAC (message authentication code) created using the algorithm defined in ISO 16609 		
6D-4.2.a Interview personnel and review documented procedures to verify that all public keys exist only in an approved form.	Personnel interviewed:	<Report Findings Here>
	Documented procedures reviewed:	<Report Findings Here>
6D-4.2.b Observe public-key stores and mechanisms to verify that public keys exist only in an approved form.	Describe how public-key stores and mechanisms verified that public keys exist only in an approved form:	
	<Report Findings Here>	
6D-5.1 Documented key-loading procedures must exist for all devices (e.g., HSMs and POI devices), and all parties involved in cryptographic key loading must be aware of those procedures.		
6D-5.1.a Verify documented procedures exist for all key-loading operations.	Documented procedures reviewed:	<Report Findings Here>
6D-5.1.b Interview responsible personnel to verify that the documented procedures are known and understood by all affected parties for all key-loading operations.	Responsible personnel interviewed:	<Report Findings Here>
6D-5.1.c Observe the key-loading process for keys loaded as components and verify that the documented procedures are demonstrably in use. This may be done as necessary on test equipment—e.g., for HSMs.	Identify the P2PE Assessor who confirms that the documented procedures for keys loaded as components are demonstrably in use:	<Report Findings Here>
6D-5.2 All key-loading events must be documented. Audit trails must be in place for all key-loading events.		

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6D-5.2 Examine log files and observe logging processes to verify that audit trails are in place for all key-loading events.	Log files examined:	<Report Findings Here>
	Describe how the logging processes observed verified that audit trails are in place for all key-loading events:	
	<Report Findings Here>	
6E-1.1 Where two organizations or logically separate systems share a key to encrypt account data (including a key-encipherment key used to encrypt a data-encryption key) communicated between them, that key must: <ul style="list-style-type: none"> • Be unique to those two entities or logically separate systems and • Not be given to any other entity or logically separate systems. 		
6E-1.1.a Examine the documented key matrix and operational procedures and interview personnel to determine whether any keys are shared between organizations or logically separate systems. For all keys shared between two organizations or logically separate systems for encrypting account data (including key-encryption keys used to encrypt a data-encryption key) perform the following:	Documented key matrix reviewed:	<Report Findings Here>
	Documented operational procedures reviewed:	<Report Findings Here>
	Personnel interviewed:	<Report Findings Here>
6E-1.1.b Generate or otherwise obtain key check values for any key-encipherment keys (KEKs) to verify key uniqueness between the two organizations. A random sample may be used where more than 10 zone connections are in use. This is not intended to be based on values retained on paper or otherwise sent as part of the original conveyance of the keying material, but rather on values generated from stored zone production keys from the production host database. Cryptograms may be used for this purpose if it is verified that the same MFK variant is used to encrypt the KEKs.	Describe how the generation of (or otherwise obtaining) key check values for any key-encipherment keys (KEKs) verified key uniqueness between the two organizations:	
	<Report Findings Here>	
6E-1.1.c If a remote key-establishment and distribution scheme is implemented between networks, examine public keys and/or hash values and/or fingerprints of the keys to verify key uniqueness of the asymmetric-key pairs.	Describe how public keys and/or hash values and/or fingerprints of the keys verified key uniqueness of the asymmetric-key pairs:	
	<Report Findings Here>	
6E-1.1.d Compare key check values against those for known or default keys to verify that known or default key values are not used.	Identify the P2PE Assessor who confirms that known or default key values are not used:	<Report Findings Here>
6E-2.1 Synchronization errors must be monitored to help reduce the risk of an adversary's substituting a key known only to them. Procedures must exist and be followed for investigating repeated synchronization errors for online processes such as online key exchanges or transmission or processing of transactions. Note: Multiple synchronization errors may be caused by the unauthorized replacement or substitution of one stored key for another, or the replacement or substitution of any portion of a TDEA key, whether encrypted or unencrypted.		
6E-2.1.a Verify procedures have been implemented for monitoring and alerting to the presence of multiple cryptographic synchronization errors.	Documented procedures reviewed:	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6E-2.1.b Verify that implemented procedures include: <ul style="list-style-type: none"> • Specific actions that determine whether the legitimate value of the cryptographic key has changed. (For example, encryption of a known value to determine whether the resulting cryptogram matches the expected result.) • Proactive safeguards that shut down the source of any synchronization errors and start an investigative process to determine the true cause of the event. 	Documented procedures reviewed:	<Report Findings Here>
6E-2.2 To prevent or detect usage of a compromised key, key-component packaging or containers that show signs of tampering must result in the discarding and invalidation of the component and the associated key at all locations where they exist.		
6E-2.2.a Verify documented procedures require that key-component packaging/containers showing signs of tampering must result in the discarding and invalidation of all associated key components and the resultant cryptographic key(s) at all locations where they exist.	Documented procedures reviewed:	<Report Findings Here>
6E-2.2.b Interview personnel and observe processes to verify procedures are implemented to require that key-component packaging/containers showing signs of tampering result in the discarding and invalidation of all associated key components and the resultant cryptographic key(s) at all locations where they exist.	Personnel interviewed:	<Report Findings Here>
	Describe how the processes observed verified that procedures are implemented to require that key-component packaging/containers showing signs of tampering result in the discarding and invalidation of all associated key components and the resultant cryptographic key(s) at all locations where they exist:	
	<Report Findings Here>	
6E-3.1 Encryption keys must only be used for the purpose they were intended (i.e., key-encryption keys must not be used as PIN-encryption keys, PIN-encryption keys must not be used for account-data, etc.). This is necessary to limit the magnitude of exposure should any key(s) be compromised. Using keys only as they are intended also significantly strengthens the security of the underlying system.		
6E-3.1.a Examine key-management documentation (e.g., the cryptographic-key inventory) and interview key custodians and key-management supervisory personnel to verify that cryptographic keys are defined for a specific purpose.	Key-management documentation reviewed:	<Report Findings Here>
	Key custodians interviewed:	<Report Findings Here>
	Key-management supervisory personnel interviewed:	<Report Findings Here>
6E-3.1.b Using a sample of device types, validate via review of check values, terminal definition files, etc. that keys used for key encipherment or PIN encipherment are not used for any other purpose.	Sample of device types reviewed:	<Report Findings Here>
	Describe how review of check values, terminal definition files, etc. verified that keys used for key encipherment or PIN encipherment are not used for any other purpose:	
	<Report Findings Here>	

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
6E-3.2 Private keys must only be used as follows: <ul style="list-style-type: none"> For a single purpose—a private key must only be used for either decryption or for creating digital signatures, but not both (except for transaction-originating POI devices). Private keys must never be used to encrypt other keys. 		
6E-3.2 Examine key-management documentation and interview key custodians and key-management supervisory personnel to verify that private keys are only used as follows: <ul style="list-style-type: none"> To create digital signatures or to perform decryption operations. For a single purpose—a private key must only be used for either decryption or for creating digital signatures, but not both. Private keys are never used to encrypt other keys. 	Key-management documentation reviewed:	<Report Findings Here>
	Key custodians interviewed:	<Report Findings Here>
	Key-management supervisory personnel interviewed:	<Report Findings Here>
6E-3.3 Public keys must only be used for a single purpose—a public key must only be used for either encryption or for verifying digital signatures, but not both (except for transaction-originating POI devices).		
6E-3.3 Examine key-management documentation and interview key custodian and key-management supervisory personnel to verify that public keys are only used: <ul style="list-style-type: none"> To perform encryption operations or to verify digital signatures. For a single purpose—a public key must only be used for either encryption or for verifying digital signatures, but not both (except for POI devices). 	Key-management documentation reviewed:	<Report Findings Here>
	Key custodians interviewed:	<Report Findings Here>
	Key-management supervisory personnel interviewed:	<Report Findings Here>
6E-3.4 Keys must never be shared or substituted between production and test/development systems. <ul style="list-style-type: none"> Keys used for production must never be present or used in a test/development system, and Keys used for testing must never be present or used in a production system. <i>Note: For logically partitioned HSMS and computing platforms, if one or more logical partitions of a physical device are used for production and one or more other logical partitions are used for testing, including QA or similar, the entire configuration must be managed and controlled as production.</i>		
6E-3.4.a Examine key-management documentation and interview key custodians and key-management supervisory personnel to verify that cryptographic keys are never shared or substituted between production and test/development systems.	Key-management documentation reviewed:	<Report Findings Here>
	Key custodians interviewed:	<Report Findings Here>
	Key-management supervisory personnel interviewed:	<Report Findings Here>
6E-3.4.b Observe processes for generating and loading keys into production systems to ensure that they are in no way associated with test or development keys.	Describe how the observed processes for generating and loading keys into production systems verified that they are in no way associated with test or development keys:	<Report Findings Here>
6E-3.4.c Observe processes for generating and loading keys into test systems to ensure that they are in no way associated with production keys.	Describe how the observed processes for generating and loading keys into test systems verified that they are in no way associated with production keys:	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>6E-3.4.d Compare check, hash, cryptogram, or fingerprint values for production and test/development keys with higher-level keys (MFKs, KEKs shared with other network nodes, and BDks) to verify that development and test keys have different key values.</p>	Describe how the compared check, hash, cryptogram, or fingerprint values for production and test/development keys with higher-level keys (MFKs, KEKs shared with other network nodes, and BDks) verified that development and test keys have different key values:	
	<Report Findings Here>	
<p>6E-3.5 If a business rationale exists, a production platform (HSM and server/standalone computer) may be temporarily used for test purposes. However, all keying material must be deleted from the HSM(s) and the server/computer platforms prior to testing. Subsequent to completion of testing, all keying materials must be deleted, the server/computer platforms must be wiped and rebuilt from read-only media, and the relevant production keying material restored using the principles of dual control and split knowledge as stated in these requirements.</p> <p>At all times, the HSMs and servers/computers must be physically and logically secured in accordance with these requirements.</p> <p><i>Note this does not apply to HSMs that are never intended to be used for production</i></p>		
<p>6E-3.5 Interview personnel to determine whether production platforms are ever temporarily used for test purposes.</p> <p>If they are, verify that documented procedures require that:</p> <ul style="list-style-type: none"> • All keying material is deleted from the HSM(s) and the server /computer platforms prior to testing. • Subsequent to completion of testing, all keying materials must be deleted and the server/computer platforms must be wiped and rebuilt from read-only media. • Prior to reuse for production purposes the HSM is returned to factory state. • The relevant production keying material is restored using the principles of dual control and split knowledge as stated in these requirements. 	Personnel interviewed:	<Report Findings Here>
	Documented procedures reviewed:	<Report Findings Here>
<p>6E-4.1 POI devices must each implement unique secret and private keys for any function directly or indirectly related to account-data protection. These keys must be known only in that device and in hardware security modules (HSMs) at the minimum number of facilities consistent with effective system operations. Disclosure of the key in one such device must not provide any information that could be feasibly used to determine the key in any other such device.</p> <p><i>This means not only the account-data-encryption key(s), but also keys that are used to protect other keys, firmware-authentication keys, payment-application authentication and display-prompt control keys. As stated in the requirement, this does not apply to public keys resident in the device.</i></p> <p><i>POI device private keys must not exist anywhere but the specific POI device they belong to, except where generated external to the POI device and prior to the injection into the POI device.</i></p>		
<p>6E-4.1.a Examine documented procedures for the loading and usage of all keys used in transaction-originating POI devices. Verify the procedures ensure that all private and secret keys used in transaction-originating POI devices are:</p> <ul style="list-style-type: none"> • Known only to a single POI device, and • Known only to HSMs at the minimum number of facilities consistent with effective system operations. 	Documented procedures reviewed:	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6E-4.1.b Observe HSM functions and procedures for generating and loading secret and private keys for use in transaction-originating POI devices to verify that unique keys are generated and used for each POI device.	Describe how the observed HSM functions and procedures for generating and loading secret and private keys for use in transaction-originating POI devices verified that unique keys are generated and used for each POI device:	
	<Report Findings Here>	
6E-4.1.c Examine check values, hash, or fingerprint values for a sample of cryptographic keys from different POI devices to verify private and secret keys are unique for each POI device. This can include comparing a sample of POI public keys (multiple devices for each POI device vendor used) to determine that the associated private keys stored in the POI devices are unique per device—i.e., the public keys are unique.	Describe how the examined check values, hash, or fingerprint values for a sample of cryptographic keys from different POI devices verified that private and secret keys are unique for each POI device:	
	<Report Findings Here>	
6E-4.2 If a POI device directly interfaces with more than one entity for decryption of account data (e.g., different acquiring organizations), the POI device must have a completely different and unique key or set of keys for each acquirer. These different keys, or sets of keys, must be totally independent and not variants of one another.		
6E-4.2.a Determine whether any POI device interfaces with multiple entities for decryption. If so: <ul style="list-style-type: none"> Examine documented procedures for generating all types of keys and verify the procedures ensure that unique keys or sets of keys are used for each acquiring organization and totally independent and are not variants of one another. 	Documented procedures reviewed:	<Report Findings Here>
6E-4.2.b Interview personnel and observe key-generation processes to verify that unique keys or sets of keys are generated for each acquiring organization.	Personnel interviewed:	<Report Findings Here>
	Describe how the observed key-generation processes verified that unique keys or sets of keys are generated for each acquiring organization:	
	<Report Findings Here>	
6E-4.3 Keys that are generated by a derivation process and derived from the same Base (master) Derivation Key must use unique data for the derivation process as defined in ISO 11568 so that all such cryptographic devices receive unique initial secret keys. Base derivation keys must not ever be loaded onto POI devices—i.e., only the derived key is loaded to the POI device. <i>This requirement refers to the use of a single “base” key to derive master keys for many different POI devices, using a key-derivation process as described above. This requirement does not preclude multiple unique keys being loaded on a single device, or for the device to use a unique key for derivation of other keys once loaded—e.g., as done with DUKPT.</i>		

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6E-4.3.a Examine documented procedures and observe processes for generating master keys. Verify the following is implemented where master keys are generated by a derivation process and derived from the same Base Derivation Key:</p> <ul style="list-style-type: none"> • Unique data is used for the derivation process such that all transaction-originating POI devices receive unique secret keys. • Key derivation is performed prior to a key being loaded/sent to the recipient transaction-originating POI device. 	Documented procedures reviewed:	<Report Findings Here>
	<p>Describe how the observed processes for generating master keys verified that the following is implemented where master keys are generated by a derivation process and derived from the same Base Derivation Key:</p> <ul style="list-style-type: none"> • Unique data is used for the derivation process such that all transaction-originating POI devices receive unique secret keys. • Key derivation is performed prior to a key being loaded/sent to the recipient transaction-originating POI device. 	
	<Report Findings Here>	
<p>6E-4.3.b Verify that derivation keys used to generate keys for multiple devices are never loaded into a POI device.</p>	Describe how the processes for generating master keys verified that derivation key4s used to generate keys for multiple devices are never loaded into a POI device:	
	<Report Findings Here>	
<p>6E-4.4 Entities processing or injecting DUKPT or other key-derivation methodologies on behalf of multiple acquiring organizations must incorporate a segmentation strategy in their environments. Segmentation must use one or more of the following techniques:</p> <ul style="list-style-type: none"> • Different BDKeys for each financial institution • Different BDKeys by injection vendor (e.g., ESO), terminal manufacturer, or terminal model • Different BDKeys by geographic region, market segment, platform, or sales unit <p>Injection vendors must use at least one unique Base Derivation Key (BDK) per acquiring organization, and must be able to support segmentation of multiple BDKeys of acquiring organizations.</p>		
<p>6E-4.4 Determine whether the entity processing or injecting DUKPT or other key-derivation methodologies does so on behalf of multiple acquiring organizations. If so:</p> <ul style="list-style-type: none"> • Interview personnel and review documented procedures to determine that unique Base Derivation Keys are used for each acquiring organization. • Observe key-injection processes for devices associated with different acquiring organizations to verify that Base Derivation Key(s) unique to each organization are used. 	Documented procedures reviewed:	<Report Findings Here>
	Personnel interviewed:	<Report Findings Here>
	<p>Describe how the observed key-injection processes for devices associated with different acquiring organizations verified that Base Derivation Key(s) unique to each organization are used:</p>	
<Report Findings Here>		
<p>6F-1.1 Secret or private keys must only exist in one or more of the following forms:</p> <ul style="list-style-type: none"> • At least two separate key shares or full-length components • Encrypted with a key of equal or greater strength as delineated in Annex C • Contained within a secure cryptographic device <p><i>Note for hybrid decryption solutions: Clear-text Data Decryption Keys (DDKs) may temporarily be retained by the Host System in volatile memory for the purpose of decrypting account data.</i></p>		

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6F-1.1.a Examine documented procedures for key storage and usage and observe key stores to verify that secret or private keys only exist in one or more approved forms at all times when stored (<i>with the exception of DDKs used on the Host System for hybrid decryption solutions</i>).	Documented procedures reviewed:	<Report Findings Here>
	Describe how the observed key stores verified that secret or private keys only exist in one or more approved forms at all times when stored (<i>with the exception of DDKs used on the Host System for hybrid decryption solutions</i>): <Report Findings Here>	
6F-1.1.b Observe key stores to verify that secret or private keys only exist in one or more approved forms at all times when stored (<i>with the exception of DDKs used on the Host System for hybrid decryption solutions</i>).	Describe how the observed key stores verified that secret or private keys only exist in one or more approved forms at all times when stored (<i>with the exception of DDKs used on the Host System for hybrid decryption solutions</i>): <Report Findings Here>	
6F-1.2 Wherever key components are used, they have the following properties:		
6F-1.2 Examine documented procedures and interview responsible personnel to determine all instances where key components are used. Perform the following wherever key components are used:	Documented procedures reviewed:	<Report Findings Here>
	Responsible personnel interviewed:	<Report Findings Here>
6F-1.2.1 Knowledge of any one key component/share does not convey any knowledge of any part of the actual cryptographic key.		
6F-1.2.1 Review processes for creating key components and examine key components to verify that knowledge of any one key component does not convey any knowledge of any part of the actual cryptographic key.	Describe how the processes for creating key components and the examined key components verified that knowledge of any one key component does not convey any knowledge of any part of the actual cryptographic key: <Report Findings Here>	
6F-1.2.2 Construction of the cryptographic key requires the use of at least two key components/shares.		
6F-1.2.2 Observe processes for constructing cryptographic keys to verify that at least two key components/shares are required for each key construction.	Describe how the observed processes for constructing keys verified that at least two key components/shares are required for each key construction: <Report Findings Here>	
6F-1.2.3 Each key component/share has one or more specified authorized custodians.		
6F-1.2.3.a Examine documented procedures for the use of key components and interview key custodians and key-management supervisory personnel to verify that each key component is assigned to a specific individual, or set of individuals, who are designated as key custodians for that component.	Key-management documentation reviewed:	<Report Findings Here>
	Key custodians interviewed:	<Report Findings Here>
	Key-management supervisory personnel interviewed:	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>6F-1.2.3.b Observe key-component access controls and key-custodian authorizations/assignments to verify that all individuals with access to key components are designated as key custodians for those particular components.</p>	<p>Describe how the observed key-component access controls and key-custodian authorizations/assignments verified that all individuals with access to key components are designated as key custodians for those particular components:</p> <p style="text-align: center;"><Report Findings Here></p>	
<p>6F-1.2.4 Procedures exist to ensure any custodian never has access to sufficient key components or shares to reconstruct a secret or private key cryptographic key.</p> <p><i>For example, in an m-of-n scheme (which must use a recognized secret-sharing scheme such as Shamir), where only two of any three components are required to reconstruct the cryptographic key, a custodian must not have current or prior knowledge of more than one component. If a custodian was previously assigned component A, which was then reassigned, the custodian must not then be assigned component B or C, as this would give them knowledge of two components, which gives them ability to recreate the key.</i></p> <p><i>In an m-of-n scheme where n=5, where three components are required to reconstruct the cryptographic key, a single custodian may be permitted to have access to two of the key components (e.g., component A and component B), as a second custodian (with, in this example, component C) would be required to reconstruct the final key, ensuring that dual control is maintained.</i></p>		
<p>6F-1.2.4.a Examine documented procedures for the use of key components to verify that procedures ensure that any custodian never has access to sufficient key components or shares to reconstruct a secret or private cryptographic key.</p>	<p>Documented procedures reviewed:</p>	<p style="text-align: center;"><Report Findings Here></p>
<p>6F-1.2.4.b Examine key-component access controls and access logs to verify that authorized custodians cannot access sufficient key components or shares to reconstruct a secret or private cryptographic key.</p>	<p>Describe how the key-component access controls and access logs examined verified that authorized custodians cannot access sufficient key components or shares to reconstruct a secret or private cryptographic key:</p> <p style="text-align: center;"><Report Findings Here></p>	
<p>6F-1.3 Key components must be stored as follows:</p>		
<p>6F-1.3 Examine documented procedures, interview responsible personnel and inspect key-component storage locations to verify that key components are stored as outlined in Requirements 6F-1.3.1 through 6F-1.3.3 below:</p>	<p>Documented procedures reviewed:</p>	<p style="text-align: center;"><Report Findings Here></p>
	<p>Responsible personnel interviewed:</p>	<p style="text-align: center;"><Report Findings Here></p>
<p>6F-1.3.1 Key components that exist in clear-text outside of an SCD must be sealed in opaque, pre-numbered, tamper-evident, authenticable packaging that prevents the determination of the key component without noticeable damage to the packaging.</p> <p>Note: <i>Tamper-evident authenticable packaging—opacity may be envelopes within tamper-evident packaging— used to secure key components must ensure that the key component cannot be determined. For components written on paper, opacity may be sufficient, but consideration must be given to any embossing or other possible methods to “read” the component without opening of the packaging. Similarly, if the component is stored on a magnetic card, contactless card, or other media that can be read without direct physical contact, the packaging should be designed to prevent such access to the key component.</i></p>		
<p>6F-1.3.1.a Examine key components and storage locations to verify that components are stored in opaque, pre-numbered, tamper-evident, authenticable packaging that prevents the determination of the key component without noticeable damage to the packaging.</p>	<p>Describe how the key components and storage locations examined verified that components are stored in opaque, pre-numbered, tamper-evident, authenticable packaging that prevents the determination of the key component without noticeable damage to the packaging:</p> <p style="text-align: center;"><Report Findings Here></p>	

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6F-1.3.1.b Inspect any tamper-evident packaging used to secure key components and ensure that it prevents the determination of the key component without visible damage to the packaging.	Identify the P2PE Assessor who confirms that tamper-evident packaging prevents the determination of the key component without visible damage to the packaging:	<Report Findings Here>
6F-1.3.1.c Ensure clear-text key components do not exist in any other locations, including in non-secure containers, in databases, on floppy disks, or in software programs.	Identify the P2PE Assessor who confirms that clear-text key components do not exist in any other locations.	<Report Findings Here>
6F-1.3.1.d Confirm that start-up instructions and other notes used by service technicians do not contain initialization-key values written in the clear (e.g., at the point in the checklist where the keys are entered).	Identify the P2PE Assessor who confirms that start-up instructions and other notes used by service technicians do not contain initialization-key values written in the clear:	<Report Findings Here>
6F-1.3.2 Key components for each specific custodian must be stored in a separate secure container that is accessible only by the custodian and/or designated backup(s). <i>Note: Furniture-based locks or containers with a limited set of unique keys—e.g., desk drawers—are not sufficient to meet this requirement. Components for a specific key that are stored in separate envelopes, but within the same secure container, place reliance upon procedural controls and do not meet the requirement for physical barriers.</i>		
6F-1.3.2 Inspect each key component storage container and verify the following: <ul style="list-style-type: none"> • Key components for different custodians are stored in separate secure containers. • Each secure container is accessible only by the custodian and/or designated backup(s). 	Identify the P2PE Assessor who confirms that for each key component storage container: <ul style="list-style-type: none"> • Key components for different custodians are stored in separate secure containers. • Each secure container is accessible only by the custodian and/or designated backup(s). 	<Report Findings Here>
6F-1.3.3 If a key is stored on a token, and an access code (e.g., a PIN or similar access-control mechanism) is used to access the token, only that token's owner (or designated backup(s)) must have possession of both the token and its access code.		
6F-1.3.3 Interview responsible personnel and observe implemented processes to verify that if a key is stored on a token, and an access code (PIN or similar mechanism) is used to access the token, only that token's owner—or designated backup(s)—has possession of both the token and its access code.	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the implemented processes observed verified that if a key is stored on a token, and an access code (PIN or similar mechanism) is used to access the token, only that token's owner—or designated backup(s)—has possession of both the token and its access code:	
	<Report Findings Here>	

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6F-2.1 Procedures for known or suspected compromised keys must include the following:		
6F-2.1 Verify documented procedures exist for replacing known or suspected compromised keys that includes all of the following (6F-2.1.1 through 6F-2.1.5 below):	Documented procedures reviewed:	<Report Findings Here>
6F-2.1.1 Key components are never reloaded when there is any suspicion that either the originally loaded key or the SCD (or, <i>for hybrid decryption solutions</i> , the <i>Host System</i>) has been compromised.		
6F-2.1.1 Interview responsible personnel and observe implemented processes to verify key components are never reloaded when there is any suspicion that either the originally loaded key or the SCD (or, <i>for hybrid decryption solutions</i> , the <i>Host System</i>) has been compromised.	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the implemented processes observed verified that key components are never reloaded when there is any suspicion that either the originally loaded key or the SCD (or, <i>for hybrid decryption solutions</i> , the <i>Host System</i>) has been compromised:	
	<Report Findings Here>	
6F-2.1.2 If unauthorized alteration is suspected, new keys are not installed until the SCD (or, <i>for hybrid decryption solutions</i> , the <i>Host System</i>) has been inspected and assurance reached that the equipment has not been subject to any form of unauthorized modification.		
6F-2.1.2 Interview responsible personnel and observe implemented processes to verify that if unauthorized alteration is suspected, new keys are not installed until the SCD (or, <i>for hybrid decryption solutions</i> , the <i>Host System</i>) has been inspected and assurance reached that the equipment has not been subject to any form of unauthorized modification.	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the implemented processes observed verified that if unauthorized alteration is suspected, new keys are not installed until the SCD (or, <i>for hybrid decryption solutions</i> , the <i>Host System</i>) has been inspected and assurance reached that the equipment has not been subject to any form of unauthorized modification:	
	<Report Findings Here>	
6F-2.1.3. A secret or private cryptographic key must be replaced with a new key whenever the compromise of the original key is known. Suspected compromises must be assessed and the analysis formally documented. If compromise is confirmed, the key must be replaced. In addition, all keys encrypted under or derived using that key must be replaced with a new key within the minimum feasible time. The replacement key must not be a variant or an irreversible transformation of the original key. Compromised keys must not be used to facilitate replacement with a new key(s). Note: <i>The compromise of a key must result in the replacement and destruction of that key and all variants and non-reversible transformations of that key, as well as all keys encrypted under or derived from that key.</i> <i>Known or suspected substitution of a secret key must result in the replacement of that key and any associated key-encipherment keys.</i>		

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>6F-2.1.3 Interview responsible personnel and observe implemented processes to verify that if compromise of the cryptographic key is suspected, an assessment and analysis is performed. If compromise is confirmed, and all the following are performed:</p> <ul style="list-style-type: none"> • Processing with that key is halted, and the key is replaced with a new unique key. • Any systems, devices, or processing involving subordinate keys that have been calculated, derived, or otherwise generated, loaded, or protected using the compromised key are included in the key-replacement process. • The replacement key must not be a variant of the original key, or an irreversible transformation of the original key. 	Responsible personnel interviewed:	<Report Findings Here>
	<p>Describe how the implemented processes observed verified that if compromise of the cryptographic key is suspected, an assessment and analysis is performed. If compromise is confirmed, the following are performed:</p> <ul style="list-style-type: none"> • Processing with that key is halted, and the key is replaced with a new unique key. • Any systems, devices, or processing involving subordinate keys that have been calculated, derived, or otherwise generated, loaded, or protected using the compromised key are included in the key-replacement process. • The replacement key must not be a variant of the original key, or an irreversible transformation of the original key. 	
	<Report Findings Here>	
<p>6F-2.1.4 A documented escalation process and notification to organizations that currently share or have previously shared the key(s), including:</p> <ul style="list-style-type: none"> • Identification of key personnel • A damage assessment including, where necessary, the engagement of outside consultants • Specific actions to be taken with system software and hardware, encryption keys, encrypted data, etc. 		
<p>6F-2.1.4.a Interview responsible personnel and observe implemented processes to verify key personnel are identified and that the escalation process includes notification to organizations that currently share or have previously shared the key(s).</p>	Responsible personnel interviewed:	<Report Findings Here>
	<p>Describe how the implemented processes observed verified that key personnel are identified and that the escalation process includes notification to organizations that currently share or have previously shared the key(s):</p>	
	<Report Findings Here>	
<p>6F-2.1.4.b Verify notifications include the following:</p> <ul style="list-style-type: none"> • A damage assessment including, where necessary, the engagement of outside consultants • Details of specific actions to be taken with system software and hardware, encryption keys, encrypted data, etc. 	Identify the P2PE Assessor who confirms that notifications include a damage assessment including, where necessary, the engagement of outside consultants and details of specific actions to be taken with system software and hardware, encryption keys, encrypted data, etc.	<Report Findings Here>

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>6F-2.1.5 Identification of specific events that would indicate a compromise may have occurred. Such events must include but are not limited to:</p> <ul style="list-style-type: none"> • Missing secure cryptographic devices • Tamper-evident seals or authenticable envelope numbers or dates and times not agreeing with log entries • Tamper-evident seals or authenticable envelopes that have been opened without authorization or show signs of attempts to open or penetrate • Indications of physical or logical access attempts to the processing system by unauthorized individuals or entities • Failure to document that a secret or private key has been managed using the principles of dual control and split knowledge from its date of creation • <i>Host System tamper-detection mechanism has been activated, for hybrid decryption solutions</i> 	<p><Report Findings Here></p>	
<p>6F-2.1.5 Interview responsible personnel and review documented procedures to verify that specific events that may indicate a compromise are identified. This must include, as a minimum, the following events:</p> <ul style="list-style-type: none"> • Missing SCDs • Tamper-evident seals or authenticable envelope numbers or dates and times not agreeing with log entries • Tamper-evident seals or authenticable envelopes that have been opened without authorization or show signs of attempts to open or penetrate • Indications of physical or logical access attempts to the processing system by unauthorized individuals or entities • Failure to document that a secret or private key has been managed using the principles of dual control and split knowledge from its date of creation • <i>Host System tamper-detection mechanism has been activated, for hybrid decryption solutions</i> 	<p>Responsible personnel interviewed:</p>	<p><Report Findings Here></p>
	<p>Documented procedures reviewed:</p>	<p><Report Findings Here></p>
<p>6F-2.2 If attempts to load a secret key or key component into an KLD or POI device (or a <i>Host System, for hybrid decryption solutions</i>) fail, the same key or component must not be loaded into a replacement device unless it can be ensured that all residue of the key or component has been erased from or otherwise destroyed in the original KLD or POI device (or <i>Host System</i>).</p>	<p><Report Findings Here></p>	
<p>6F-2.2 Interview responsible personnel and observe implemented processes to verify that if attempts to load a secret key or key component into an KLD or POI device (or a <i>Host System, for hybrid decryption solutions</i>) fail, the same key or component is not loaded into a replacement device unless it can be ensured that all residue of the key or component has been erased from or otherwise destroyed in the original KLD or POI device (or <i>Host System</i>).</p>	<p>Responsible personnel interviewed:</p>	<p><Report Findings Here></p>
	<p>Describe how the implemented processes observed verified that if attempts to load a secret key or key component into an KLD or POI device (or a <i>Host System, for hybrid decryption solutions</i>) fail, the same key or component is not loaded into a replacement device unless it can be ensured that all residue of the key or component has been erased from or otherwise destroyed in the original KLD or POI device (or <i>Host System</i>):</p>	
	<p><Report Findings Here></p>	

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6F-3.1 Any key generated with a reversible process (such as a variant of a key) of another key must be protected in the same manner as the original key—that is, under the principles of dual control and split knowledge. Variants of the same key may be used for different purposes, but must not be used at different levels of the key hierarchy. For example, reversible transformations must not generate key-encipherment keys from account-data keys.</p> <p>Note: <i>Exposure of keys that are created using reversible transforms of another (key-generation) key can result in the exposure of all keys that have been generated under that key-generation key. To limit this risk posed by reversible key calculation, such as key variants, the reversible transforms of a key must be secured in the same way as the original key-generation key.</i></p>		
<p>6F-3.1.a Examine documented procedures and interview responsible personnel to determine whether keys are generated using reversible key-calculation methods.</p>	Documented procedures reviewed:	<Report Findings Here>
	Responsible personnel interviewed:	<Report Findings Here>
<p>6F-3.1.b Observe processes to verify that any key generated using a reversible process of another key is protected under the principles of dual control and split knowledge.</p>	Describe how the observed processes verified that any key generated using a reversible process of another key is protected under the principles of dual control and split knowledge:	
	<Report Findings Here>	
<p>6F-3.2 An MFK used by host processing systems for encipherment of keys for local storage—and variants of the MFK—must not be used external to the (logical) configuration that houses the MFK itself. For example, MFKs and their variants used by host processing systems for encipherment of keys for local storage shall not be used for other purposes, such as key conveyance between platforms that are not part of the same logical configuration.</p> <p><i>A logical configuration is defined as one where all the components form a system used to undertake a particular task and are managed and controlled under a single operational and security policy.</i></p>		
<p>6F-3.2.a Interview responsible personnel to determine which host MFKs keys exist as variants.</p> <p>Note: <i>Some HSMs may automatically generate variants or control vectors for specific keys, but it is still up to the entity to specify exact usage.</i></p>	Responsible personnel interviewed:	<Report Findings Here>
<p>6F-3.2.b Review vendor documentation to determine support for key variants.</p>	Vendor documentation reviewed:	<Report Findings Here>
<p>6F-3.2.c Via review of the network schematic detailing transaction flows with the associated key usage and identification of the sources of the keys used, determine that variants of the MFK are not used external to the logical configuration that houses the MFK.</p>	Describe how the review of the network schematic detailing transaction flows with the associated key usage and identification of the sources of the keys used verified that variants of the MFK are not used external to the logical configuration that houses the MFK:	
	<Report Findings Here>	

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>6F-3.3 Reversible key transformations are not used across different levels of the key hierarchy. For example, reversible transformations must not generate working keys (e.g., PEKs) from key-encrypting keys.</p> <p>Such transformations are only used to generate different types of key-encrypting keys from an initial key-encrypting key, or working keys with different purposes from another working key.</p> <p>Note: <i>Using transforms of keys across different levels of a key hierarchy—e.g., generating a PEK from a key-encrypting key—increases the risk of exposure of each of those keys.</i></p> <p><i>It is acceptable to use one “working” key to generate multiple reversible transforms to be used for different working keys, such as MAC key(s), and data key(s) (where a different reversible transform is used to generate each different working key). Similarly, it is acceptable to generate multiple key-encrypting keys from a single key-encrypting key. However, it is not acceptable to generate working keys from key-encrypting keys.</i></p>	<p style="text-align: center;"><Report Findings Here></p>	
<p>6F-3.3 Examine documented key-transformation procedures and observe implemented processes to verify that reversible key transformations are not used across different levels of the key hierarchy, as follows:</p> <ul style="list-style-type: none"> • Variants used as KEKs must only be calculated from other key-encrypting keys • Variants of working keys must only be calculated from other working keys. 	<p>Documented procedures reviewed:</p>	<p style="text-align: center;"><Report Findings Here></p>
	<p>Describe how the implemented processes observed verified that reversible key transformations are not used across different levels of the key hierarchy, as follows:</p> <ul style="list-style-type: none"> • Variants used as KEKs must only be calculated from other key-encrypting keys • Variants of working keys must only be calculated from other working keys. 	<p style="text-align: center;"><Report Findings Here></p>
<p>6F-4.1 Instances of secret or private keys, and their key components, that are no longer used or that have been replaced by a new key must be destroyed.</p>	<p style="text-align: center;"><Report Findings Here></p>	
<p>6F-4.1.a Verify documented procedures are in place for destroying secret or private keys, and their key components that are no longer used or that have been replaced by a new key.</p>	<p>Documented procedures reviewed:</p>	<p style="text-align: center;"><Report Findings Here></p>
<p>6F-4.1.b Identify a sample of keys and key components that are no longer used or have been replaced. For each item in the sample, interview responsible personnel and examine key-history logs and key-destruction logs to verify that all keys have been destroyed.</p>	<p>Sample of keys and key components that are no longer used or have been replaced reviewed:</p>	<p style="text-align: center;"><Report Findings Here></p>
	<p>Responsible personnel interviewed:</p>	<p style="text-align: center;"><Report Findings Here></p>
	<p>Key-history logs examined:</p>	<p style="text-align: center;"><Report Findings Here></p>
	<p>Key-destruction logs examined:</p>	<p style="text-align: center;"><Report Findings Here></p>
<p>6F-4.1.c Review storage locations for the sample of destroyed keys to verify they are no longer kept.</p>	<p>Describe how storage locations for the sample of destroyed keys verified they are no longer kept:</p>	
	<p style="text-align: center;"><Report Findings Here></p>	

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>6F-4.2 The procedures for destroying keys or key components that are no longer used or that have been replaced by a new key must be documented and sufficient to ensure that no part of the key or component can be recovered. This must be accomplished by use of a cross-cut shredder, pulping or burning. Strip-shredding is not sufficient.</p> <p>Note: Key destruction for keys installed in HSMs and POI devices is addressed in Requirement 6G-3.</p>		
<p>6F-4.2.a Examine documented procedures for destroying keys and confirm they are sufficient to ensure that no part of the key or component can be recovered.</p>	Documented procedures reviewed:	<Report Findings Here>
<p>6F-4.2.b Observe key-destruction processes to verify that no part of the key or component can be recovered.</p>	Describe how the key-destruction processes observed verified that no part of the key or component can be recovered: <Report Findings Here>	
<p>6F-4.2.1 Keys on all other storage media types in all permissible forms—physically secured, enciphered (except for electronic database backups of cryptograms), or components—must be destroyed following the procedures outlined in ISO–9564 or ISO–11568. <i>For example, keys (including components or shares) maintained on paper must be burned, pulped, or shredded in a crosscut shredder.</i></p>		
<p>6F-4.2.1.a Examine documented procedures for destroying keys and confirm that keys on all other storage media types in all permissible forms—physically secured, enciphered, or components—must be destroyed following the procedures outlined in ISO–9564 or ISO–11568.</p>	Documented procedures reviewed:	<Report Findings Here>
<p>6F-4.2.1.b Observe key-destruction processes to verify that keys on all other storage media types in all permissible forms—physically secured, enciphered, or component—are destroyed following the procedures outlined in ISO–9564 or ISO–11568.</p>	Describe how the key-destruction processes observed verified that keys on all other storage media types in all permissible forms—physically secured, enciphered, or component—are destroyed following the procedures outlined in ISO–9564 or ISO–11568: <Report Findings Here>	
<p>6F-4.2.2 The key-destruction process must be observed by a third party other than the custodians of any component of that key—i.e., the third party must not be a key custodian for any part of the key being destroyed. The third-party witness must sign an affidavit of destruction.</p>		
<p>6F-4.2.2.a Observe key-destruction process and verify that it is witnessed by a third party other than a key custodian for any component of that key.</p>	Identify the P2PE Assessor who confirms the key-destruction process is witnessed by a third party other than a key custodian for any component of that key:	<Report Findings Here>
<p>6F-4.2.2.b Inspect key-destruction logs and verify that a third-party, non-key-custodian witness signs an affidavit as a witness to the key destruction process.</p>	Key-destruction logs inspected:	<Report Findings Here>
<p>6F-4.3 Key components for keys other than the HSM MFK that have been successfully loaded and confirmed as operational must also be destroyed, unless the HSM does not store the encrypted values on a database but only stores the subordinate keys internal to the HSM. BDKeys used in KLDs may also be stored as components where necessary to reload the KLD.</p>		
<p>6F-4.3.a Verify documented procedures exist for destroying key components of keys once the keys are successfully loaded and validated as operational.</p>	Documented procedures reviewed:	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6F-4.3.b Observe key-conveyance/loading processes to verify that any key components are destroyed once the keys are successfully loaded and validated as operational.	Describe how the key-conveyance/loading processes observed verified that any key components are destroyed once the keys are successfully loaded and validated as operational:	
	<Report Findings Here>	
6F-5.1 To reduce the opportunity for key compromise, limit the number of key custodians to a minimum required for operational efficiency. For example:		
6F-5.1 Interview key custodians and key-management supervisory personnel and observe implemented processes to verify the following:	Key custodians interviewed:	<Report Findings Here>
	Key-management supervisory personnel interviewed:	<Report Findings Here>
6F-5.1.1 Designate key custodian(s) for each component, such that the fewest number (e.g., a primary and a backup) of key custodians are assigned as necessary to enable effective key management. . Key custodians must be employees or contracted personnel.		
6F-5.1.1 Review key-custodian assignments for each component to verify that: <ul style="list-style-type: none"> • A primary and a backup key custodian are designated for each component. • The fewest number of key custodians is assigned as necessary to enable effective key management. • Assigned key custodians are employees or contracted personnel. 	Describe how the key-custodian assignments reviewed for each component verified that:	
	<ul style="list-style-type: none"> • A primary and a backup key custodian are designated for each component. • The fewest number of key custodians is assigned as necessary to enable effective key management. • Assigned key custodians are employees or contracted personnel. 	
<Report Findings Here>		
6F-5.1.2 Document this designation by having each custodian and backup custodian sign a key-custodian form.		
6F-5.1.2.a Examine completed key-custodian forms to verify that key custodians sign the form.	Completed key-custodian forms reviewed:	<Report Findings Here>
6F-5.1.2.b Examine completed key-custodian forms to verify that backup custodians sign the form.	Completed key-custodian forms reviewed:	<Report Findings Here>
6F-5.1.3 Each key-custodian form provides the following: <ul style="list-style-type: none"> • Specific authorization for the custodian • Identification of the custodian's responsibilities for safeguarding key components or other keying material entrusted to them • Signature of the custodian acknowledging their responsibilities • An effective date and time for the custodian's access • Signature of management authorizing the access 		

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6F-5.1.3 Examine all key-custodian forms to verify that they include the following:</p> <ul style="list-style-type: none"> • Specific authorization for the custodian • Identification of the custodian's responsibilities for safeguarding key components or other keying material entrusted to them • Signature of the custodian acknowledging their responsibilities • An effective date and time for the custodian's access • Signature of management authorizing the access. 	Completed key-custodian forms reviewed:	<Report Findings Here>
<p>6F-5.1.4 In order for key custodians to be free from undue influence in discharging their custodial duties, key custodians sufficient to form the necessary threshold to create a key must not directly report to the same individual except as noted below for organizations of insufficient size. <i>For example, for a key managed as three components, at least two individuals report to different individuals. In an m-of-n scheme (which must use a recognized secret-sharing scheme such as Shamir), such as three of five key shares to form the key, key custodians sufficient to form the threshold necessary to form the key must not report to the same individual.</i></p> <p>The components collectively held by an individual and his or her direct reports shall not constitute a quorum (or shall not provide any information about the value of the key that is not derivable from a single component).</p> <p>When the overall organization is of insufficient size such that the reporting structure cannot support this requirement, procedural controls can be implemented. Organizations that are of such insufficient size that they cannot support the reporting-structure requirement must ensure key custodians do not report to each other (i.e., the manager cannot also be a key custodian), receive explicit training to instruct them from sharing key components with their direct manager, and must sign key-custodian agreements that includes an attestation to the requirement.</p>		
<p>6F-5.1.4.a Examine key-custodian assignments and organization charts to confirm the following:</p> <ul style="list-style-type: none"> • Key custodians that form the necessary threshold to create a key do not directly report to the same individual. • Neither direct reports nor the direct reports in combination with their immediate supervisor possess the necessary threshold of key components sufficient to form any given key. 	Documented key-custodian assignments reviewed:	<Report Findings Here>
	Documented organization charts reviewed:	<Report Findings Here>
<p>6F-5.1.4.b For organizations that are such a small, modest size that they cannot support the reporting-structure requirement, ensure that documented procedures exist and are followed to:</p> <ul style="list-style-type: none"> • Ensure key custodians do not report to each other. • Receive explicit training to instruct them from sharing key components with their direct manager. • Sign key-custodian agreement that includes an attestation to the requirement. • Ensure training includes whistleblower procedures to report any violations. 	Documented procedures reviewed:	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6F-6.1 Logs must be kept whenever keys, key components, or related materials are removed from secure storage or loaded to an SCD. These logs must be archived for a minimum of two years subsequent to key destruction.</p> <p>At a minimum, logs must include the following:</p> <ul style="list-style-type: none"> • Date and time in/out • Key-component identifier • Purpose of access • Name and signature of custodian accessing the component • Tamper-evident package number (if applicable) 	<p><Report Findings Here></p>	
<p>6F-6.1.a Review log files and audit log settings to verify that logs are kept for any time that keys, key components, or related materials are:</p> <ul style="list-style-type: none"> • Removed from secure storage • Loaded to an SCD 	<p>Log files reviewed:</p>	<p><Report Findings Here></p>
	<p>Describe how log files and audit log settings verified that logs are kept for any time that keys, key components, or related materials are:</p> <ul style="list-style-type: none"> • Removed from secure storage • Loaded to an SCD 	
	<p><Report Findings Here></p>	
<p>6F-6.1.b Review log files and audit log settings to verify that logs include the following:</p> <ul style="list-style-type: none"> • Date and time in/out • Key component identifier • Purpose of access • Name and signature of custodian accessing the component • Tamper-evident package number (if applicable) 	<p>Log files reviewed:</p>	<p><Report Findings Here></p>
	<p>Describe how log files and audit log settings verified that logs include the following:</p> <ul style="list-style-type: none"> • Date and time in/out • Key component identifier • Purpose of access • Name and signature of custodian accessing the component • Tamper-evident package number (if applicable) 	
	<p><Report Findings Here></p>	
<p>6F-7.1 If backup copies of secret and/or private keys exist, they must be maintained in accordance with the same requirements as are followed for the primary keys.</p>	<p><Report Findings Here></p>	
<p>6F-7.1 Interview responsible personnel and examine documented procedures and backup records to determine whether any backup copies of keys or their components exist. Perform the following:</p>	<p>Responsible personnel interviewed:</p>	<p><Report Findings Here></p>
	<p>Documented procedures reviewed:</p>	<p><Report Findings Here></p>
	<p>Backup records reviewed:</p>	<p><Report Findings Here></p>

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6F-7.1.a Observe backup processes to verify backup copies of secret and/or private keys are maintained in accordance with the same requirements as are followed for the primary keys.	Describe how the backup processes observed verified that backup copies of secret and/or private keys are maintained in accordance with the same requirements as are followed for the primary keys:	
	<Report Findings Here>	
6F-7.1.b Inspect backup storage locations and access controls or otherwise verify through examination of documented procedures and interviews of personnel that backups are maintained as follows: <ul style="list-style-type: none"> • Securely stored with proper access controls • Under at least dual control • Subject to at least the same level of security control as operational keys as specified in this document 	Documented procedures reviewed:	<Report Findings Here>
	Personnel interviewed:	<Report Findings Here>
	OR Describe how backup storage locations verified that backups are maintained as follows: <ul style="list-style-type: none"> • Securely stored with proper access controls • Under at least dual control • Subject to at least the same level of security control as operational keys as specified in this document 	
	<Report Findings Here>	
6F-7.2 If backup copies are created, the following must be in place: <ul style="list-style-type: none"> • Creation (including cloning) of top-level keys—e.g., MFKs—must require a minimum of two authorized individuals to enable the process. • All requirements applicable for the original keys also apply to any backup copies of keys and their components. 		
6F-7.2 Interview responsible personnel and observe backup processes to verify the following: <ul style="list-style-type: none"> • The creation of any backup copies for top-level keys requires at least two authorized individuals to enable the process • All requirements applicable for the original keys also apply to any backup copies of keys and their components. 	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the backup processes observed verified that:	
	<ul style="list-style-type: none"> • The creation of any backup copies for top-level keys requires at least two authorized individuals to enable the process • All requirements applicable for the original keys also apply to any backup copies of keys and their components. 	
<Report Findings Here>		
6F-8.1 Written procedures must exist and all affected parties must be aware of those procedures. All activities related to key administration must be documented. This includes all aspects of key administration, as well as: <ul style="list-style-type: none"> • Security-awareness training • Role definition—nominated individual with overall responsibility • Background checks for personnel (within the constraints of local laws) • Management of personnel changes, including revocation of access control and other privileges when personnel move 		

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>6F-8.1.a Examine documented procedures for key-administration operations to verify they cover all activities related to key administration, and include:</p> <ul style="list-style-type: none"> • Security-awareness training • Role definition—nominated individual with overall responsibility • Background checks for personnel (within the constraints of local laws) • Management of personnel changes, including revocation of access control and other privileges when personnel move 	Documented procedures reviewed:	<Report Findings Here>
<p>6F-8.1.b Interview personnel responsible for key-administration operations to verify that the documented procedures are known and understood.</p>	Responsible personnel interviewed:	<Report Findings Here>
<p>6F-8.1.c Interview personnel to verify that security-awareness training is provided for the appropriate personnel.</p>	Personnel interviewed:	<Report Findings Here>
<p>6F-8.1.d Interview responsible HR personnel to verify that background checks are conducted (within the constraints of local laws).</p>	Responsible HR personnel interviewed:	<Report Findings Here>
<p>6G-1.1 Secure cryptographic devices—such as HSMs and POI devices—must be placed into service only if there is assurance that the equipment has not been subjected to unauthorized modifications, substitution, or tampering and has not otherwise been subject to misuse prior to deployment.</p>		
<p>6G-1.1.a Review documented procedures to confirm that processes are defined to provide the following assurances prior to the loading of cryptographic keys:</p> <ul style="list-style-type: none"> • POI devices have not been substituted or subjected to unauthorized modifications or tampering. • SCDs used for key injection/loading or code signing have not been substituted or subjected to unauthorized modifications or tampering. 	Documented procedures reviewed:	<Report Findings Here>
<p>6G-1.1.b Observe processes and interview personnel to verify that processes are followed to provide the following assurances prior to the loading of cryptographic keys:</p> <ul style="list-style-type: none"> • POI devices have not been substituted or subjected to unauthorized modifications or tampering. • SCDs used for key injection/loading or code signing have not been substituted or subjected to unauthorized modifications or tampering. 	Personnel interviewed:	<Report Findings Here>
	<p>Identify the P2PE Assessor who confirms that processes are followed to provide the following assurances prior to the loading of cryptographic keys:</p> <ul style="list-style-type: none"> • POI devices have not been substituted or subjected to unauthorized modifications or tampering. • SCDs used for key injection/loading or code signing have not been substituted or subjected to unauthorized modifications or tampering. 	

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6G-1.1.1 Controls must be implemented to protect POI devices and other SCDs from unauthorized access up to point of deployment. Controls must include the following:		
6G-1.1.1.a Review documented procedures to verify controls are defined to protect POIs, and other SCDs from unauthorized access up to point of deployment.	Documented procedures reviewed:	<Report Findings Here>
6G-1.1.1.b Verify that documented procedures include 6G-1.1.1.1 through 6G-1.1.1.3 below.	Documented procedures reviewed:	<Report Findings Here>
6G-1.1.1.1 Access to all POI devices, and other SCDs is documented, defined, logged, and controlled such that unauthorized individuals cannot access, modify, or substitute any device without detection.		
6G-1.1.1.1.a Examine access-control documentation and device configurations to verify that access to all POI devices and key injection/loading devices is defined and documented.	Access-control documentation reviewed:	<Report Findings Here>
	Describe how access-control documentation and device configurations observed verified that access to all POI devices and key injection/loading devices is defined and documented:	
	<Report Findings Here>	
6G-1.1.1.1.b For a sample of POI device types and other SCDs, observe authorized personnel accessing devices and examine access logs to verify that access to all POI devices and other SCDs is logged.	Sample of POI device types and other SCDs:	<Report Findings Here>
	Access logs reviewed:	<Report Findings Here>
	Describe how observation of authorized personnel accessing devices and access logs verified that access to all POI devices and other SCDs is logged:	
	<Report Findings Here>	
6G-1.1.1.1.c Examine implemented access controls to verify that unauthorized individuals cannot access, modify, or substitute any POI device or other SCD.	Describe how the implemented access controls examined verified that unauthorized individuals cannot access, modify, or substitute any POI device or other SCD:	
	<Report Findings Here>	
6G-1.1.1.2 POI devices and other SCDs must not use default keys (such as keys that are pre-installed for testing purposes), passwords, or data.		
6G-1.1.1.2 Examine vendor documentation or other information sources to identify default keys (such as keys that are pre-installed for testing purposes), passwords, or data. Observe implemented processes and interview personnel to verify that default keys, passwords, or data are not used.	Vendor documentation or other information source reviewed:	<Report Findings Here>
	Personnel interviewed:	<Report Findings Here>
	Describe how the implemented processes examined verified that default keys, passwords or data are not used:	
	<Report Findings Here>	

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6G-1.1.1.3 All personnel with access to POI devices and other SCDs prior to deployment are documented in a formal list and authorized by management. A documented security policy must exist that requires the specification of personnel with authorized access to all secure cryptographic devices. This includes documentation of all personnel with access to POI devices and other SCDs as authorized by management. The list of authorized personnel is reviewed at least annually.</p> <p>Note: “Prior to deployment” for this requirement means prior to the solution provider sending POI devices to either a distribution channel or the end merchant who will use the POI device to process transactions.</p>		
<p>6G-1.1.1.3.a Examine documented authorizations for personnel with access to devices to verify that prior to deployment:</p> <ul style="list-style-type: none"> • All personnel with access to POI devices and other SCDs are documented in a formal list. • All personnel with access to POI devices and other SCDs are authorized by management. • The authorizations are reviewed annually. 	Documented authorizations reviewed:	<Report Findings Here>
<p>6G-1.1.1.3.b For a sample of POI device types and other SCDs, examine implemented access controls to verify that only personnel documented and authorized in the formal list have access to devices.</p>	Sample of POI device types and other SCDs reviewed:	<Report Findings Here>
	Describe how the implemented access controls for the sample of POI device types and other SCDs examined verified that only personnel documented and authorized in the formal list have access to devices:	
	<Report Findings Here>	
<p>6G-1.3 Implement physical protection of devices from the manufacturer’s facility up to the point of key-insertion or inspection, through one or more of the following.</p> <ul style="list-style-type: none"> • Transportation using a trusted courier service (e.g., via bonded carrier). The devices are then securely stored until key-insertion occurs. • Use of physically secure and trackable packaging (e.g., pre-serialized, counterfeit-resistant, tamper-evident packaging). The devices are then stored in such packaging, or in secure storage, until key-insertion occurs. • A secret, device-unique “transport-protection token” is loaded into the secure storage area of each device at the manufacturer’s facility. The SCD used for key-insertion verifies the presence of the correct “transport-protection token” before overwriting this value with the initial key, and the device is further protected until deployment. • Each cryptographic device is carefully inspected and tested immediately prior to key-insertion and deployment using due diligence. This is done to provide reasonable assurance that it is the legitimate device and that it has not been subject to any unauthorized modifications. (Note: Unauthorized access includes that by customs officials.) • Devices incorporate self-tests to ensure their correct operation. Devices must not be re-installed unless there is assurance they have not been tampered with or compromised. (Note: this control must be used in conjunction with one of the other methods.) • Controls exist and are in use to ensure that all physical and logical controls and anti-tamper mechanisms used are not modified or removed. 		
<p>6G-1.3.a Examine documented procedures to verify they require physical protection of devices from the manufacturer’s facility up to the point of key-insertion and deployment, through one or more of the defined methods.</p>	Documented procedures reviewed:	<Report Findings Here>
<p>6G-1.3.b Interview responsible personnel to verify that one or more of the defined methods are in place to provide physical device protection for devices, from the manufacturer’s facility up to the point of key-insertion and deployment.</p>	Responsible personnel interviewed:	<Report Findings Here>

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6G-1.4 Dual-control mechanisms must exist to prevent substitution or tampering of HSMs—both deployed and spare or backup devices—throughout their lifecycle. Procedural controls, which may be a combination of physical barriers and logical controls, may exist to support the prevention and detection of substituted HSMs, but cannot supplant the implementation of dual-control mechanisms.</p>		
<p>6G-1.4.a Examine documented procedures to verify that dual-control mechanisms exist to prevent substitution or tampering of HSMs—both deployed and spare or back-up devices—throughout their life cycle.</p>	Documented procedures reviewed:	<Report Findings Here>
	Responsible personnel interviewed:	<Report Findings Here>
<p>6G-1.4.b Interview responsible personnel and physically verify the dual-control mechanism used to prevent substitution or tampering of HSMs—both in service and spare or back-up devices—throughout their life cycle.</p>	Identify the P2PE Assessor who physically verified the dual-control mechanism used to prevent substitution or tampering of HSMs—both in service and spare or back-up devices—throughout their life cycle:	<Report Findings Here>
<p>6G-1.4.1 HSM serial numbers must be compared to the serial numbers documented by the sender (sent using a different communication channel from the device) to ensure device substitution has not occurred. A record of device serial-number validations must be maintained. Note: Documents used for this process must be received via a different communication channel—i.e., the control document used must not have arrived with the equipment. An example of how serial numbers may be documented by the sender includes but is not limited to manufacturer's invoice or similar document.</p>		
<p>6G-1.4.1.a Interview responsible personnel to verify that device serial numbers are compared to the serial number documented by the sender.</p>	Responsible personnel interviewed:	<Report Findings Here>
<p>6G-1.4.1.b For a sample of received devices, review sender documentation sent by a different communication channel than the device's shipment (e.g., the manufacturer's invoice or similar documentation) used to verify serial numbers. Examine the record of serial-number validations to confirm the serial number for the received device was verified to match that documented by the sender.</p>	Sample of received devices:	<Report Findings Here>
	Sender documentation/record of serial-number validations reviewed:	<Report Findings Here>
<p>6G-1.4.3 When HSMs are connected to online systems, controls are in place to prevent the use of an HSM to perform privileged or sensitive functions that are not available during routine HSM operations. Note: Examples of sensitive functions include but are not limited to: loading of key components, outputting clear-text key components, and altering HSM configuration.</p>		
<p>6G-1.4.3 Examine HSM configurations and observe processes to verify that HSMs are not enabled in a sensitive state when connected to online systems.</p>	Describe how the HSM configurations examined and processes observed verified that HSMs are not enabled in a sensitive state when connected to online systems:	
		<Report Findings Here>

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
6G-1.4.4 Inspect and test all HSMs—either new or retrieved from secure storage—prior to installation to verify devices have not been tampered with or compromised. Processes must include:		
6G-1.4.4.a Examine documented procedures to verify they require inspection and testing of HSMs prior to installation to verify integrity of device and include requirements specified at 6G-1.4.4.1 through 6G-1.4.4.4 below.	Documented procedures reviewed:	<Report Findings Here>
6G-1.4.4.1 Running self-tests to ensure the correct operation of the device.		
6G-1.4.4.1 Examine records of device inspections and test results to verify that self-tests are run on devices to ensure the correct operation of the device.	Records of device inspections reviewed:	<Report Findings Here>
	Describe how the records of device inspections and test results examined verified that self-tests are run on devices to ensure the correct operation of the device:	
	<Report Findings Here>	
6G-1.4.4.2 Installing (or re-installing) devices only after confirming that the device has not been tampered with or compromised.		
6G-1.4.4.2 Observe inspection processes and interview responsible personnel to verify that devices are installed, or reinstalled, only after confirming that the device has not been tampered with or compromised.	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the inspection processes observed verified that devices are installed, or reinstalled, only after confirming that the device has not been tampered with or compromised:	
	<Report Findings Here>	
6G-1.4.4.3 Physical and/or functional tests and visual inspection to confirm that physical and logical controls and anti-tamper mechanisms are not modified or removed		
6G-1.4.4.3 Observe inspection processes and interview responsible personnel to confirm processes include physical and/or functional tests and visual inspection to verify that physical and logical controls and anti-tamper mechanisms are not modified or removed.	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the inspection processes observed verified that processes include physical and/or functional tests and visual inspection to verify that physical and logical controls and anti-tamper mechanisms are not modified or removed:	
	<Report Findings Here>	
6G-1.4.4.4 Maintaining records of the tests and inspections, and retaining records for at least one year.		
6G-1.4.4.4.a Examine records of inspections and interview responsible personnel to verify records of the tests and inspections are maintained.	Records of inspections examined:	<Report Findings Here>
	Responsible personnel interviewed:	<Report Findings Here>

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6G-1.4.4.4.b Examine records of inspections to verify records are retained for at least one year.	Records of inspections examined:	<Report Findings Here>
6G-1.4.5 Maintain HSMs in tamper-evident packaging or in secure storage until ready for installation.		
6G-1.4.5.a Examine documented procedures to verify they require devices be maintained in tamper-evident packaging until ready for installation.	Documented procedures reviewed:	<Report Findings Here>
6G-1.4.5.b Observe a sample of received devices to verify they are maintained in tamper-evident packaging until ready for installation.	Sample of received devices reviewed:	<Report Findings Here>
<p>6G-3.1 Procedures are in place to ensure that any SCDs to be removed from service—e.g., retired or returned for repair—are not intercepted or used in an unauthorized manner, including that all keys, key material, and account data stored within the device must be rendered irrecoverable.</p> <p>Processes must include the following:</p> <p>Note: <i>Without proactive key-removal processes, devices removed from service can retain cryptographic keys in battery-backed RAM for days or weeks. Likewise, host/hardware security modules (HSMs) can also retain keys—and more critically, the Master File Key—resident within these devices. Proactive key-removal procedures must be in place to delete all such keys from any SCD being removed from the network.</i></p>		
<p>6G-3.1 Verify that documented procedures for removing SCDs from service include the following:</p> <ul style="list-style-type: none"> • Procedures require that all keys and key material, and all account data stored within the device be securely destroyed. • Procedures cover all devices removed from service permanently or for repair. • Procedures cover requirements at 6G-3.1.1 through 6G-3.1.6 below. 	Documented procedures reviewed:	<Report Findings Here>
6G-3.1.1 HSMs require dual control (e.g., to invoke the system menu) to implement all critical decommissioning processes.		
6G-3.1.1.a Review documented procedures for removing HSMs from service to verify that dual control is implemented for all critical decommissioning processes.	Documented procedures reviewed:	<Report Findings Here>
6G-3.1.1.b Interview personnel and observe demonstration (if HSM is available) of processes for removing HSMs from service to verify that dual control is implemented for all critical decommissioning processes.	Personnel interviewed:	<Report Findings Here>
	Describe how the demonstration of processes for removing HSMs from service verified that dual control is implemented for all critical decommissioning processes: <Report Findings Here>	
6G-3.1.2 Keys and account data are rendered irrecoverable (e.g., zeroized) for SCDs. If data cannot be rendered irrecoverable, devices must be physically destroyed under dual control to prevent the disclosure of any sensitive data or keys.		

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6G-3.1.2 Interview personnel and observe demonstration of processes for removing SCDs from service to verify that all keying material and account data are rendered irrecoverable (e.g., zeroized), or that devices are physically destroyed under dual control to prevent the disclosure of any sensitive data or keys.	Personnel interviewed:	<Report Findings Here>
	Describe how the demonstration of processes for removing SCDs from service verified that all keying material and account data are rendered irrecoverable, or that devices are physically destroyed under dual control to prevent the disclosure of any sensitive data or keys:	
	<Report Findings Here>	
6G-3.1.3 SCDs being decommissioned are tested and inspected to ensure keys and account data have been rendered irrecoverable.		
6G-3.1.3 Interview personnel and observe processes for removing SCDs from service to verify that tests and inspections of devices are performed to confirm that keys and account data have been rendered irrecoverable.	Personnel interviewed:	<Report Findings Here>
	Describe how the observed processes for removing SCDs from service verified that tests and inspections of devices are performed to confirm that keys and account data have been rendered irrecoverable:	
	<Report Findings Here>	
6G-3.1.4 Affected entities are notified before devices are returned.		
6G-3.1.4 Interview responsible personnel and examine device-return records to verify that affected entities are notified before devices are returned.	Responsible personnel interviewed:	<Report Findings Here>
	Device-return records examined:	<Report Findings Here>
6G-3.1.5 Devices are tracked during the return process.		
6G-3.1.5 Interview responsible personnel and examine device-return records to verify that devices are tracked during the return process.	Responsible personnel interviewed:	<Report Findings Here>
	Device-return records examined:	<Report Findings Here>
6G-3.1.6 Records of the tests and inspections are maintained for at least one year.		
6G-3.1.6 Interview personnel and observe records to verify that records of the tests and inspections are maintained for at least one year.	Personnel interviewed:	<Report Findings Here>
	Records of testing examined:	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6G-4.1 For HSMs and other SCDs used for the generation or loading of cryptographic keys for use in POI devices, or for signing applications and/or whitelists to be loaded into POI devices, procedures must be documented and implemented to protect against unauthorized access and use. Required procedures and processes include the following:</p>		
<p>6G-4.1.a Examine documented procedures to confirm that they specify protection against unauthorized access and use for HSMs and other devices used for the generation or loading of cryptographic keys for use in POI devices, or for signing applications and/or whitelists to be loaded into POI devices.</p>	Documented procedures reviewed:	<Report Findings Here>
<p>6G-4.1.b Verify that documented procedures cover requirements 6G-4.1.1 through 6G-4.1.5 below.</p>	Documented procedures reviewed:	<Report Findings Here>
<p>6G-4.1.1 Devices must not be authorized for use except under the dual control of at least two authorized people. <i>Note: Dual control consists of logical and/or physical characteristics. For example, dual control may be implemented for logical access via two individuals with two different passwords, or for physical access via a physical lock that requires two individuals each with a different high-security key. For devices that do not support two or more passwords, this may be achieved by splitting the single password used by the device into two halves, each half controlled by a separate authorized custodian. Physical keys, authorization codes, passwords, or other enablers must be managed so that no one person can use both the enabler(s) and the device, which can create cryptograms of known keys or key components under a key-encipherment key used in production.</i></p>		
<p>6G-4.1.1 Observe dual-control mechanisms and device-authorization processes to confirm that logical and/or physical characteristics are in place that prevent the device being authorized for use except under the dual control of at least two authorized people.</p>	Describe how the dual-control mechanisms and device-authorization processes observed verified that logical and/or physical characteristics are in place that prevent the device being authorized for use except under the dual control of at least two authorized people:	
	<Report Findings Here>	
<p>6G-4.1.1.1 Passwords used for dual control must each be of at least five numeric and/or alphabetic characters.</p>		
<p>6G-4.1.1.1 Observe password policies and configuration settings to confirm that passwords used for dual control must be at least five numeric and/or alphabetic characters.</p>	Password policies reviewed:	<Report Findings Here>
	Describe how the configuration settings observed verified that passwords used for dual control must be at least five numeric and/or alphabetic characters:	
	<Report Findings Here>	
<p>6G-4.1.2 Dual control must be implemented for the following:</p> <ul style="list-style-type: none"> • To enable any manual key-encryption functions and any key-encryption functions that occur outside of normal transaction processing; • To enable application-signing functions; • To place the device into a state that allows for the input or output of clear-text key components; • For all access to key-loading devices (KLDs) and authenticated application-signing devices. 		

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6G-4.1.2 Examine dual-control mechanisms and observe authorized personnel performing the defined activities to confirm that dual control is implemented for the following:</p> <ul style="list-style-type: none"> To enable any manual key-encryption functions, and any key-encryption functions that occur outside of normal transaction processing; To enable application-signing functions; To place the device into a state that allows for the input or output of clear-text key components; For all access to KLDs and authenticated application-signing devices. 	Dual-control mechanisms examined:	<Report Findings Here>
	<p>Describe how the observation of authorized personnel performing the defined activities verified that dual control is implemented for the following:</p> <ul style="list-style-type: none"> To enable any manual key-encryption functions, and any key-encryption functions that occur outside of normal transaction processing; To enable application-signing functions; To place the device into a state that allows for the input or output of clear-text key components; For all access to KLDs and authenticated application-signing devices. 	
	<Report Findings Here>	
<p>6G-4.1.3 Devices must not use default passwords.</p>		
<p>6G-4.1.3.a Examine password policies and documented procedures to confirm default passwords must not be used for HSMs, KLDs, and other SCDs used to generate or load cryptographic keys, or to sign applications or whitelists.</p>	Documented procedures and password policies reviewed:	<Report Findings Here>
<p>6G-4.1.3.b Observe device configurations and interview device administrators to verify that HSMs, KLDs and other SCDs used to generate or load cryptographic keys, or to sign applications or whitelists, do not use default passwords.</p>	Device administrators interviewed:	<Report Findings Here>
	<p>Describe how the device configurations observed verified that HSMs, KLDs and other SCDs used to generate or load cryptographic keys, or to sign applications or whitelists, do not use default passwords:</p>	
	<Report Findings Here>	
<p>6G-4.1.4 To detect any unauthorized use, devices are at all times within a secure room and either:</p> <ul style="list-style-type: none"> Locked in a secure cabinet and/or sealed in tamper-evident packaging, or Under the continuous supervision of at least two authorized people who ensure that any unauthorized use of the device would be detected. 		
<p>6G-4.1.4.a Examine documented procedures to confirm that they require devices are at all times within a secure room and either:</p> <ul style="list-style-type: none"> Locked in a secure cabinet and/or sealed in tamper-evident packaging at all times, or Under the continuous supervision of at least two authorized people at all times. 	Documented procedures reviewed:	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6G-4.1.4.b Interview responsible personnel and observe devices and processes to confirm that devices are at all times within a secure room and either:</p> <ul style="list-style-type: none"> • Locked in a secure cabinet and/or sealed in tamper-evident packaging at all times, or • Under the continuous supervision of at least two authorized people at all times. 	Responsible personnel interviewed:	<Report Findings Here>
	Describe how devices are at all times within a secure room and either:	
	<ul style="list-style-type: none"> • Locked in a secure cabinet and/or sealed in tamper-evident packaging at all times, or • Under the continuous supervision of at least two authorized people at all times. 	
<p>6G-5.1 Written procedures must exist, and all affected parties must be aware of those procedures. Records must be maintained of the tests and inspections performed on account-data processing devices before they are placed into service, as well as devices being decommissioned.</p>		
<p>6G-5.1.a Examine documented procedures/processes and interview responsible personnel to verify that all affected parties are aware of required processes and are provided suitable guidance on procedures for account-data processing devices placed into service, initialized, deployed, used, and decommissioned</p>	Documented procedures reviewed:	<Report Findings Here>
	Responsible personnel interviewed:	<Report Findings Here>
<p>6G-5.1.b Verify that written records exist for the tests and inspections performed on devices before they are placed into service, as well as devices being decommissioned.</p>	Documented records reviewed:	<Report Findings Here>
<p>6H-1.1 The Data Decryption Keys (DDKs) used in software to decrypt account data must have defined usage limits. This can be achieved through the use of either one of the following approaches:</p> <ul style="list-style-type: none"> • Each DDK must have a defined usage period (cryptoperiod) based on a formal risk assessment and industry guidance as provided in NIST SP800-57, ISO TR 14742 and NIST SP800-131. The cryptoperiod defines the duration of time that the DDK may be used to decrypt account data, defined either as a maximum threshold of transactions, or hours, or both (e.g., 1024 transactions or 24 hours, whichever is reached first). • Upon reaching the defined usage threshold, the DDK must not be used for further transaction processing and must be securely erased from memory of the Host System. <p align="center">OR</p> <ul style="list-style-type: none"> • DDKs are unique per transaction. Each DDK is erased from the host memory upon completion of the decryption process. 		

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6H-1.1.a Examine documented key-management policies and procedures to verify that DDKs managed on the Host System meet one or both of the following:</p> <ul style="list-style-type: none"> Each DDK must have a defined usage period (cryptoperiod) based on a formal risk assessment and industry guidance as provided in NIST SP800-57, ISO TR 14742 and NIST SP800-131. The cryptoperiod defines the duration of time that the DDK may be used to decrypt account data, defined either as a maximum threshold of transactions, or hours, or both (e.g., 1024 transactions or 24 hours, whichever is reached first). Upon reaching the defined usage threshold, the DDK must not be used for further transaction processing and must be securely erased from memory of the host processing system. <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> DDKs are unique per transaction. Each DDK is erased from the host memory upon completion of the decryption process. 	Documented key-management policies and procedures reviewed:	<Report Findings Here>
<p>6H-1.1.b Observe the key-management methods used to manage DDKs on the Host System to verify they meet one, or both of the above options.</p>	Describe how the key-management methods used to manage DDKs on the Host System meet one, or both, of the above options:	<Report Findings Here>
<p>6H-1.2 DDKs must be erased from the Host System volatile memory via a mechanism that ensures the key cannot be recovered or reconstructed.</p>		
<p>6H-1.2.a Examine documented key-management policies and procedures to verify that the mechanism used to erase a DDK from the Host System volatile memory is sufficient to ensure the key cannot be recovered or reconstructed.</p>	Documented key-management policies and procedures reviewed:	<Report Findings Here>
<p>6H-1.2.b Verify, through the use of forensic tools and/or methods, that the mechanism used to erase the DDK from the host volatile memory, is sufficient to ensure the key cannot be recovered or reconstructed.</p>	Describe the forensic tools and/or other methods used that verified that the mechanism used to erase the DDK from the host volatile memory, is sufficient to ensure the key cannot be recovered or reconstructed:	<Report Findings Here>
<p>6H-1.3 If the DDK is generated from a master key, the following conditions apply:</p> <ul style="list-style-type: none"> A one-way derivation process must be used. The DDK must never be generated as a variant of the HSM master file key. The master key used to generate the DDK must be dedicated to generating DDKs. 		
<p>6H-1.3.a Examine key-management policies and procedures to verify that the following is required for any DDKs generated from a master key:</p> <ul style="list-style-type: none"> A one-way derivation process must be used. The DDK must never be generated as a variant of the HSM master file key. The master key used to generate the DDK must be dedicated to generating DDKs. 	Documented key-management policies and procedures reviewed:	<Report Findings Here>

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6H-1.3.b Observe key-generation processes for generating DDKs from a master key to verify: <ul style="list-style-type: none"> • A one-way derivation process is used. • The DDK is never generated as a variant of the HSM master file key. • The master key used to generate the DDK is dedicated to generating DDKs. 	Describe how the key-generation processes observed verified that: <ul style="list-style-type: none"> • A one-way derivation process is used. • The DDK is never generated as a variant of the HSM master file key. • The master key used to generate the DDK is dedicated to generating DDKs. 	
	<Report Findings Here>	
6H-1.4 The DDK must be encrypted between the HSM and the Host System, e.g., using a fixed transport key or a cryptographic protocol. The method of encryption used must maintain the security policy to which the HSM was approved (either FIPS140-2, Level 3 or higher, or approved to the PCI HSM standard).		
6H-1.4.a Examine key-management policies and procedures to verify that DDKs must be encrypted between the HSM and the Host System.	Documented key-management policies and procedures reviewed:	<Report Findings Here>
6H-1.4.b Examine HSM and Host System configurations to verify that DDKs are encrypted between the HSM and the Host System.	Describe how the HSM and Host System configurations examined verified that DDKs are encrypted between the HSM and the Host System:	
	<Report Findings Here>	
6H-1.4.c Examine the HSM security policies and observe HSM implementations to verify that the method of encryption used maintains the security policy to which the HSM was approved.	Describe how the HSM security policies and HSM implementations examined verified that the method of encryption used maintains the security policy to which the HSM was approved:	
	<Report Findings Here>	
6H-1.5 The encryption mechanism used to protect the DDK between the HSM and the Host System:		
6H-1.5 Verify the encryption mechanism used to protect the DDK between the HSM and the Host System, includes 6H-1.5.1 through 6H-1.5.2 Perform the following:		
6H-1.5.1 The encryption key must be equal or greater in strength than the key it protects.		
6H-1.5.1.a Examine documented key-management policies and procedures to verify that the encryption mechanism uses an encryption key that is equal or greater in strength than the key it protects.	Documented key-management policies and procedures reviewed:	<Report Findings Here>
6H-1.5.1.b Observe key-management processes to verify the encryption mechanism used to protect the DDK between the HSM and the Host System uses an encryption key that is equal or greater in strength than the key it protects.	Describe how the key-management processes observed verified that the encryption mechanism used to protect the DDK between the HSM and the Host System uses an encryption key that is equal or greater in strength than the key it protects:	
	<Report Findings Here>	

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
6H-1.5.2 The encryption key must be unique for each Host System.		
6H-1.5.2.a Examine documented key-management policies and procedures to verify that the encryption mechanism uses an encryption key that is unique for each Host System.	Documented key-management policies and procedures reviewed:	<Report Findings Here>
6H-1.5.2.b Observe key-management processes to verify that the encryption mechanism uses an encryption key that is unique for each Host System.	Describe how the key-management processes observed verified that the encryption mechanism uses an encryption key that is unique for each Host System: <Report Findings Here>	
6H-1.5.3 The encryption key must only be used to encrypt the DDK during transmission between the HSM and the Host System, and not used to encrypt/transmit any other cryptographic key, or for any other purpose.		
6H-1.5.3.a Examine documented key-management policies and procedures to verify that the encryption mechanism uses an encryption key that is only used to encrypt the DDK during transmission between the HSM and the Host System, and not used to encrypt/transmit any other cryptographic key, or for any other purpose.	Documented key-management policies and procedures reviewed:	<Report Findings Here>
6H-1.5.3.b Observe key-management processes to verify that the encryption mechanism uses an encryption key that is only used to encrypt the DDK during transmission between the HSM and the Host System, and not used to encrypt/transmit any other cryptographic key, or for any other purpose.	Describe how the key-management processes observed verified that the encryption mechanism uses an encryption key that is only used to encrypt the DDK during transmission between the HSM and the Host System, and not used to encrypt/transmit any other cryptographic key, or for any other purpose: <Report Findings Here>	
6H-1.5.4 The encryption key must have a defined cryptoperiod based on the volume of keys it transports and industry recommendations/best practices		
6H-1.5.4.a Examine documented key-management policies and procedures to verify that the encryption mechanism uses an encryption key that has a defined cryptoperiod based on the volume of keys it transports and industry recommendations/best practices	Documented key-management policies and procedures reviewed:	<Report Findings Here>
6H-1.5.4.b Observe key-management processes to verify that the encryption mechanism uses an encryption key that has a defined cryptoperiod based on the volume of keys it transports and industry recommendations/best practices	Describe how the key-management processes observed verified that the encryption mechanism uses an encryption key that has a defined cryptoperiod based on the volume of keys it transports and industry recommendations/best practices: <Report Findings Here>	

Domain 6: P2PE Cryptographic Key Operations and Device Management – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>6I-1.1 Track status of the deployed key-management services for POIs and HSMs, and provide reports to solution provider annually and upon significant changes, including at least the following:</p> <ul style="list-style-type: none"> • Types/models of POIs and/or HSMs for which keys have been injected • For each type/model of POI and/or HSM: <ul style="list-style-type: none"> – Number of devices – Type of key(s) injected – Key-distribution method • Details of any known or suspected compromised keys, per 6F-2.1 <p><i>Note that adding, changing, or removing POI and/or HSM types, or critical key-management methods may require adherence to PCI SSC’s process for P2PE Designated Changes to Solutions. Please refer to the P2PE Program Guide for details about obligations when adding, changing, or removing elements of a P2PE solution.</i></p>		
<p>6I-1.1.a Review component provider’s documented procedures for providing required reporting to applicable solution providers, and interview responsible component-provider personnel to confirm that the following processes are documented and implemented:</p> <ul style="list-style-type: none"> • Types/models of POIs and/or HSMs for which keys have been injected • For each type/model of POI and/or HSM: <ul style="list-style-type: none"> – Number of devices – Type of key injected – Key-distribution method • Details of any known or suspected compromised keys, per 6F-2.1 	Documented component provider procedures reviewed:	<Report Findings Here>
	Responsible component provider personnel interviewed:	<Report Findings Here>
<p>6I-1.1.b Observe reports provided to applicable solution providers annually and upon significant changes to the solution, and confirm they include at least the following:</p> <ul style="list-style-type: none"> • Types/models of POIs for which keys have been injected • For each type/model of POI: <ul style="list-style-type: none"> – Number of POI devices – Type of key injected – Key-distribution method • Details of any known or suspected compromised keys, per 6F-2.1 	Solution provider reports reviewed:	<Report Findings Here>

Domain 6: Normative Annex A, A1 Remote Key Distribution Using Asymmetric Techniques Operations – Summary of Findings

Domain 6: P2PE Validation Requirements		Summary of Findings (check one)		
		In Place	N/A	Not in Place
6C Keys are conveyed or transmitted in a secure manner.				
6C-3	<i>All key-encryption keys used to transmit or convey other cryptographic keys must be (at least) as strong as any key transmitted or conveyed.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6D Key loading is handled in a secure manner.				
6D-4	<i>The loading of keys or key components must incorporate a validation mechanism such that the authenticity of the keys is ensured and it can be ascertained that they have not been tampered with, substituted, or compromised.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6E Keys are used in a manner that prevents or detects their unauthorized usage.				
6E-2	<i>Procedures must exist to prevent or detect the unauthorized substitution (unauthorized key replacement and key misuse) of one key for another key or the operation of any cryptographic device without legitimate keys.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6E-3	<i>Cryptographic keys must be used only for their sole intended purpose and must never be shared between production and test systems.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6E-4	<i>All secret and private cryptographic keys ever present and used for any function (e.g., key-encipherment or account data-encipherment) by a POI device that processes account data must be unique (except by chance) to that device.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6F Keys are administered in a secure manner.				
6F-1	<i>Secret keys used for enciphering account-data-encryption keys or for account-data encryption, or private keys used in connection with remote key-distribution implementations, must never exist outside of SCDs, except when encrypted or securely stored and managed using the principles of dual control and split knowledge.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Table 6A.1 – List of symmetric keys (by type) distributed using asymmetric techniques			
Key type/description:*	Purpose/function of the key (including types of devices using key):	Description/identifier of asymmetric techniques use for key distribution:	Entity performing remote key distribution:

* **Note:** Must include all keys from Table 6.1 identified as being distributed via remote key distribution techniques.

Domain 6: Normative Annex A, A1 Remote Key Distribution Using Asymmetric Techniques Operations – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
6C-3.2 All key-encryption keys used to transmit or convey other cryptographic keys must be (at least) as strong as any key transmitted or conveyed except as noted in the main body of Domain 6 at Requirement 6C-3.1.		
6C-3.2 Examine documented procedures to verify that all asymmetric keys used to transmit or convey other cryptographic keys must be (at least) as strong as any key transmitted or conveyed except as noted in the main body of Domain 6 at Requirement 6C-3.1.	Documented procedures reviewed:	<Report Findings Here>
6C-3.3 Key sizes and algorithms must be in accordance with Annex C.		
6C-3.3 Observe key-generation processes to verify that all asymmetric keys used to transmit or convey other cryptographic keys are at least as strong as any key transmitted or conveyed.	Describe how the key-generation processes observed verified that all asymmetric keys used to transmit or convey other cryptographic keys are at least as strong as any key transmitted or conveyed:	
	<Report Findings Here>	
6D-4.3 Mechanisms must exist to prevent a non-authorized KDH from performing key transport, key exchange, or key establishment with POIs. POIs and key-distribution hosts (KDHs) using public-key schemes must validate authentication credentials of other such devices involved in the communication immediately prior to any key transport, exchange, or establishment. Mutual authentication of the sending and receiving devices must be performed. Note: Examples of this kind of validation include checking current certificate revocation lists or embedding valid authorized KDH certificates in devices and disallowing communication with unauthorized KDHs, as delineated by techniques defined in the Technical FAQs for PCI PTS POI Security Requirements.		
6D-4.3.a Examine documented procedures to confirm they define procedures for mutual authentication of the sending and receiving devices, as follows: <ul style="list-style-type: none"> • POI devices must validate authentication credentials of KDHs prior to any key transport, exchange, or establishment with that device. • KDHs must validate authentication credentials of POIs prior to any key transport, exchange, or establishment with that device. 	Documented procedures reviewed:	<Report Findings Here>

Domain 6: Normative Annex A, A1 Remote Key Distribution Using Asymmetric Techniques Operations – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6D-4.3.b Interview applicable personnel to verify that mutual authentication of the sending and receiving devices is performed, as follows:</p> <ul style="list-style-type: none"> • POI devices validate authentication credentials of KDHs immediately prior to any key transport, exchange, or establishment with that device. • KDHs validate authentication credentials of POIs immediately prior to any key transport, exchange, or establishment with that device. 	Applicable personnel interviewed:	<Report Findings Here>
<p>6D-4.4 Key-establishment and distribution procedures must be designed such that:</p> <ul style="list-style-type: none"> • Within an implementation design, there shall be no means available for “man-in-the-middle” attacks—e.g., through binding of the KDH certificate upon the initial communication. • System implementations must be designed and implemented to prevent replay attacks—e.g., through the use of random nonces. 		
<p>6D-4.4 Examine system and process documentation to verify that key-establishment and distribution procedures are designed such that:</p> <ul style="list-style-type: none"> • There are no means available in the implementation design for “man-in-the-middle” attacks. • System implementations are designed to prevent replay attacks. 	System and process documentation reviewed:	<Report Findings Here>
<p>6D-4.5 Key pairs generated external to the device that uses the key pair must be securely transferred and loaded into the device and must provide for key protection in accordance with this document. That is, the secrecy of the private key and the integrity of the public key must be ensured. The process must ensure that once keys are injected they are no longer available for injection into other POI devices—i.e., key pairs are unique per POI device.</p>		
<p>6D-4.5 If key pairs are generated external to the device that uses the key pair, perform the following:</p> <ul style="list-style-type: none"> • Examine documented procedures to verify that controls are defined to ensure the secrecy of private keys and the integrity of public keys during key transfer and loading. • Observe key transfer and loading operations to verify that the secrecy of private keys and the integrity of the public keys are ensured. • Verify the process ensures that key pairs are unique per POI device. 	Documented procedures reviewed:	<Report Findings Here>
	Describe how key transfer and loading operations verified that the secrecy of private keys and the integrity of the public keys are ensured:	
	<Report Findings Here>	
	Describe how key transfer and loading operations verified that the process ensures that key pairs are unique per POI device:	
	<Report Findings Here>	
<p>6E-2.4 POIs shall only communicate with a Certification Authority (CA) for the purpose of certificate signing (or for key injection where the certificate-issuing authority generates the key pair on behalf of the POI); and with KDHs for key management, normal transaction processing, and certificate (entity) status checking.</p>		
<p>6E-2.4.a Examine documented procedures to verify that:</p> <ul style="list-style-type: none"> • POIs only communicate with CAs for the purpose of certificate signing, or for key injection where the certificate-issuing authority generates the key pair on behalf of the device; • POIs only communicate with KDHs for key management, normal transaction processing, and certificate (entity) status checking. 	Documented procedures reviewed:	<Report Findings Here>
	Responsible personnel interviewed:	<Report Findings Here>

Domain 6: Normative Annex A, A1 Remote Key Distribution Using Asymmetric Techniques Operations – Reporting			
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings		
6E-2.4.b Interview responsible personnel and observe POI configurations to verify that: <ul style="list-style-type: none"> POIs only communicate with CAs for the purpose of certificate signing, or for key-injection where the certificate issuing authority generates the key pair on behalf of the device; POIs only communicate with KDHS or key management, normal transaction processing, and certificate (entity) status checking. 	Describe how the POI configurations observed verified that POIs only communicate with CAs for the purpose of certificate signing, or for key-injection where the certificate issuing authority generates the key pair on behalf of the device:		
	<i><Report Findings Here></i>		
	Describe how the POI configurations observed verified that POIs only communicate with KDHS or key management, normal transaction processing, and certificate (entity) status checking:		
6E-2.5 KDHS shall only communicate with POIs for the purpose of key management and normal transaction processing, and with CAs for the purpose of certificate signing and certificate (entity) status checking.			
6E-2.5.a Examine documented procedures to verify that: <ul style="list-style-type: none"> KDHS only communicate with POIs for the purpose of key management and normal transaction processing; KDHS only to communicate with CAs for the purpose of certificate signing and certificate (entity) status checking. 	Documented procedures reviewed:	<i><Report Findings Here></i>	
	<i><Report Findings Here></i>		
6E-2.5.b Interview responsible personnel and observe KDH configurations to verify that: <ul style="list-style-type: none"> KDHS only communicate with POIs for the purpose of key management and normal transaction processing; KDHS only communicate with CAs for the purpose of certificate signing and certificate (entity) status checking. 	Responsible personnel interviewed:	<i><Report Findings Here></i>	
	Describe how the KDH configurations observed verified that KDHS only communicate with POIs for the purpose of key management and normal transaction processing:		
	<i><Report Findings Here></i>		
	Describe how the KDH configurations observed verified that KDHS only communicate with CAs for the purpose of certificate signing and certificate (entity) status checking:		
<i><Report Findings Here></i>			
6E-3.6 Key pairs must not be reused for certificate renewal or replacement—i.e., new key pairs must be generated. Each key pair must result in only one certificate.			
6E-3.6.a Examine documented procedures for requesting certificate issue, renewal, and replacement to verify procedures include generation of a unique key pair for each: <ul style="list-style-type: none"> New certificate issue request Certificate replacement request Each key pair generated results in only one certificate 	Documented procedures reviewed:	<i><Report Findings Here></i>	
	<i><Report Findings Here></i>		
		Responsible personnel interviewed:	<i><Report Findings Here></i>

Domain 6: Normative Annex A, A1 Remote Key Distribution Using Asymmetric Techniques Operations – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>6E-3.6.b Interview responsible personnel and observe certificate issuing and replacement processes to verify that:</p> <ul style="list-style-type: none"> • Only one certificate is requested for each key pair generated. • Certificates are replaced by generating a new key pair and requesting a new certificate. • Each key pair generated results in only one certificate. 	<p>Describe how the observed certificate issuing and replacement processes verified that:</p> <ul style="list-style-type: none"> • Only one certificate is requested for each key pair generated. • Certificates are replaced by generating a new key pair and requesting a new certificate. • Each key pair generated results in only one certificate. <p><Report Findings Here></p>	
<p>6E-3.7 KDH private keys must not be shared between devices except for load balancing and disaster recovery.</p>		
<p>6E-3.7 Examine documented processes to verify that KDH private keys are not permitted to be shared between devices, except for load balancing and disaster recovery.</p>	<p>Documented processes reviewed:</p>	<p><Report Findings Here></p>
<p>6E-3.8 POI private keys must not be shared between devices.</p>		
<p>6E-3.8.a Examine documented processes to verify that POI private keys are not permitted to be shared between devices.</p>	<p>Documented processes reviewed:</p>	<p><Report Findings Here></p>
<p>6E-3.8.b Inspect public key certificates on the host processing system to confirm that a unique certificate exists for each connected POI.</p>	<p>Describe how public key certificates on the host processing system confirmed that a unique certificate exists for each connected POI:</p> <p><Report Findings Here></p>	
<p>6F-1.4 Private keys used to sign certificates, certificate status lists, messages, or for key protection must exist only in one or more of the following forms:</p> <ul style="list-style-type: none"> • Within a secure cryptographic device that meets applicable PCI requirements for such a device, • Encrypted using an algorithm and key size of equivalent or greater strength, or • As components using a recognized (e.g., Shamir) secret-sharing scheme. 		
<p>6F-1.4.a Examine documented key-management procedures to verify that private keys used to sign certificates, certificate-status lists, messages, or for key protection must exist only in one or more of the approved forms at all times.</p>	<p>Documented procedures reviewed:</p>	<p><Report Findings Here></p>
<p>6F-1.4.b Observe key-management operations and interview key custodians and key-management supervisory personnel to verify that private keys used to sign certificates, certificate-status lists, messages, or for key protection must exist only in one or more of the approved forms at all times.</p>	<p>Key custodians interviewed:</p>	<p><Report Findings Here></p>
	<p>Key-management supervisory personnel interviewed:</p>	<p><Report Findings Here></p>
	<p>Describe how the key-management operations observed verified that private keys used to sign certificates, certificate-status lists, messages, or for key protection must exist only in one or more of the approved forms at all times:</p>	
	<p><Report Findings Here></p>	

Domain 6: Normative Annex A, A2 Certification and Registration Authority Operations – Summary of Findings

Domain 6: P2PE Validation Requirements	Summary of Findings (check one)		
	In Place	N/A	Not in Place
6C Keys are conveyed or transmitted in a secure manner.			
6C-3 All key-encryption keys used to transmit or convey other cryptographic keys must be (at least) as strong as any key transmitted or conveyed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6D Key loading is handled in a secure manner.			
6D-4 The loading of keys or key components must incorporate a validation mechanism such that the authenticity of the keys is ensured and it can be ascertained that they have not been tampered with, substituted, or compromised.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6E Keys are used in a manner that prevents or detects their unauthorized usage.			
6E-3 Cryptographic keys must be used only for their sole intended purpose and must never be shared between production and test systems.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6F Keys are administered in a secure manner.			
6F-1 Secret keys used for enciphering account-data-encryption keys or for account-data encryption, or private keys used in connection with remote key-distribution implementations, must never exist outside of SCDs, except when encrypted or securely stored and managed using the principles of dual control and split knowledge.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6F-2 Procedures must exist and must be demonstrably in use to replace any known or suspected compromised key, its subsidiary keys (those keys encrypted with the compromised key), and keys derived from the compromised key, to a value not feasibly related to the original key.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6F-5 Access to secret and private cryptographic keys and key materials must be: a) Limited to a need-to-know basis so that the fewest number of key custodians are necessary to enable their effective use; and b) Protected such that no other person (not similarly entrusted with that component) can observe or otherwise contain the component.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6F-8 Documented procedures must exist and must be demonstrably in use for all key-administration operations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6G Equipment used to process account data and keys is managed in a secure manner.			
6G-3 Procedures must be in place and implemented to protect and SCDs—and endure the destruction of any cryptographic keys or key material within such devices—when removed from service, retired at the end of the deployment lifecycle, or returned for repair.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Domain 6: Normative Annex A, A2 Certification and Registration Authority Operations – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
6C-3.2 All key-encryption keys used to transmit or convey other cryptographic keys must be (at least) as strong as any key transmitted or conveyed, except as noted in the main body of Domain 6 at Requirement 6C-3.1.		
6C-3.2 Examine documented procedures to verify that all asymmetric keys used to transmit or convey other cryptographic keys must be (at least) as strong as any key transmitted or conveyed except as noted in the main body of Domain 6 at Requirement 6C-3.1.	Documented procedures reviewed:	<Report Findings Here>
6C-3.3 Key sizes and algorithms must be in accordance with Annex C.		
6C-3.3 Observe key-generation processes to verify that all asymmetric keys used to transmit or convey other cryptographic keys are at least as strong as any key transmitted or conveyed.	Describe how the key-generation processes observed verified that all asymmetric keys used to transmit or convey other cryptographic keys are at least as strong as any key transmitted or conveyed:	
	<Report Findings Here>	
6D-4.6 Key pairs generated external to the device that uses the key pair must be securely transferred and loaded into the device and must provide for key protection in accordance with this document. That is, the secrecy of the private key and the integrity of the public key must be ensured. The process must ensure that once keys are injected they are no longer available for injection into other POI devices—i.e., key pairs are unique per POI device.		
6D-4.6 If key pairs are generated external to the device that uses the key pair, perform the following: <ul style="list-style-type: none"> Examine documented procedures to verify that controls are defined to ensure the secrecy of private keys and the integrity of public keys during key transfer and loading. Observe key transfer and loading operations to verify that the secrecy of private keys and the integrity of the public keys are ensured. Verify the process ensures that key pairs are unique per POI device. 	Documented procedures reviewed:	<Report Findings Here>
	Describe how key transfer and loading operations verified that the secrecy of private keys and the integrity of the public keys are ensured	
	<Report Findings Here>	
	Describe how key transfer and loading operations verified that the process ensures that key pairs are unique per POI device:	
<Report Findings Here>		
6E-3.5 If a business rationale exists, a production platform (HSM and server/standalone computer) may be temporarily used for test purposes. However, all keying material must be deleted from the HSM(s) and the server/computer platforms prior to testing. Subsequent to completion of testing, all keying materials must be deleted, the server/computer platforms must be wiped and rebuilt from read-only media, and the relevant production keying material restored using the principles of dual control and split knowledge as stated in these requirements. At all times, the HSMs and servers/computers must be physically and logically secured in accordance with these requirements.		

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>6E-3.5 Interview personnel to determine whether production platforms are ever temporarily used for testing. If they are, verify that documented procedures require that:</p> <ul style="list-style-type: none"> • All keying material is deleted from the HSM(s) and the server/computer platforms prior to testing. • Subsequent to completion of testing, all keying materials must be deleted and the server/computer platforms must be wiped and rebuilt from read-only media. • Prior to reuse for production purposes the HSM is returned to factory state. • The relevant production keying material is restored using the principles of dual control and split knowledge as stated in these requirements. 	Personnel interviewed:	<Report Findings Here>
	Documented procedures reviewed:	<Report Findings Here>
<p>6E-3.6 Key pairs must not be reused for certificate renewal or replacement—i.e., new key pairs must be generated. Each key pair must result in only one certificate.</p>		
<p>6E-3.6.a Examine documented procedures for requesting certificate issue, renewal, and replacement to verify procedures include generation of a unique key pair for each:</p> <ul style="list-style-type: none"> • New certificate issue request • Certificate replacement request • Each key pair generated results in only one certificate 	Documented procedures reviewed:	<Report Findings Here>
<p>6E-3.6.b Interview responsible personnel and observe certificate issuing and replacement processes to verify that:</p> <ul style="list-style-type: none"> • Only one certificate is requested for each key pair generated. • Certificates are replaced by generating a new key pair and requesting a new certificate. • Each key pair generated results in only one certificate. 	Responsible personnel interviewed:	<Report Findings Here>
	<p>Describe how the certificate issuing and replacement processes observed verified that:</p> <ul style="list-style-type: none"> • Only one certificate is requested for each key pair generated. • Certificates are replaced by generating a new key pair and requesting a new certificate. • Each key pair generated results in only one certificate. 	
	<Report Findings Here>	
<p>6E-3.9 Mechanisms must be utilized to preclude the use of a key for other than its designated and intended purpose—that is, keys must be used in accordance with their certificate policy. See RFC 3647- Internet X.509 Public Key Infrastructure Certificate Policy and Certification Practices Framework for an example of content.</p>		
<p>6E-3.9.a Examine key-usage documentation and ensure that the usage is in accordance with the certificate policy.</p>	Key-usage documentation reviewed:	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>6E-3.9.b Examine vendor documentation and device configuration settings to verify that the device mechanisms are implemented that preclude the use of a key for other than its designated and intended purpose.</p>	Vendor documentation reviewed:	<Report Findings Here>
	Describe how the vendor documentation and device configuration settings observed verified that the device mechanisms are implemented that preclude the use of a key for other than its designated and intended purpose:	
	<Report Findings Here>	
<p>6E-3.9.1 CA certificate signature keys, certificate (entity) status checking (e.g., Certificate Revocation Lists) signature keys, or signature keys for updating valid/authorized host lists in encryption devices must not be used for any purpose other than subordinate entity certificate requests, certificate status checking, and self-signed root certificates.</p> <p>Note: The keys used for certificate signing and certificate (entity) status checking (and if applicable, self-signed roots) may be for combined usage or may exist as separate keys dedicated to either certificate-signing or certificate (entity) status checking.</p>		
<p>6E-3.9.1.a Examine certificate policy and documented procedures to verify that:</p> <ul style="list-style-type: none"> • Certificate signature keys, • Certificate status checking (e.g., Certificate Revocation Lists) signature keys, or • Signature keys for updating valid/authorized host lists in POIs <p>Must not be used for any purpose other than:</p> <ul style="list-style-type: none"> • Subordinate entity certificate requests, • Certificate status checking, and/or • Self-signed root certificates. 	Certificate policy and documented procedures reviewed:	<Report Findings Here>
<p>6E-3.9.1.b Interview responsible personnel and observe demonstration to verify that:</p> <ul style="list-style-type: none"> • Certificate signature keys, • Status checking (e.g., Certificate Revocation Lists) signature keys, or • Signature keys for updating valid/authorized host lists in POIs <p>Are not used for any purpose other than:</p> <ul style="list-style-type: none"> • Subordinate entity certificate requests, • Certificate status checking, and/or • Self-signed root certificates. 	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the demonstration verified that:	
	<ul style="list-style-type: none"> • Certificate signature keys, • Status checking (e.g., Certificate Revocation Lists) signature keys, or • Signature keys for updating valid/authorized host lists in POIs <p>Are not used for any purpose other than:</p> <ul style="list-style-type: none"> • Subordinate entity certificate requests, • Certificate status checking, and/or • Self-signed root certificates. 	
<p>6E-3.9.2 CAs that issue certificates to other CAs must not be used to issue certificates to POIs.</p>		
<p>6E-3.9.2 If a CA issues certificates to other CAs, examine the CA certificate policy and documented procedures to verify that the CA does not also issue certificates to POI devices.</p>	CA certificate policy and documented procedures reviewed:	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
6E-3.10 Public-key-based implementations must provide mechanisms for restricting and controlling the use of public and private keys. For example, this can be accomplished through the use of X.509 compliant certificate extensions.		
6E-3.10 Examine documented procedures to verify that mechanisms are defined for restricting and controlling the use of public and private keys such that they can only be used for their intended purpose.	Documented procedures reviewed:	<Report Findings Here>
6E-3.11 CA private keys must not be shared between devices except for load balancing and disaster recovery.		
6E-3.11 Examine CA’s documented processes to verify that CA private keys are not permitted to be shared between devices, except for load balancing and disaster recovery.	CA’s documented processes reviewed:	<Report Findings Here>
6E-3.12 The PKI used for remote key distribution must not be used for any other purpose, e.g., cannot be used for firmware or application authentication.		
6E-3.12.a Interview responsible personnel to verify that the PKI is operated solely for the purposes of remote key distribution:	Responsible personnel interviewed:	<Report Findings Here>
6E-3.12.b Examine the documented certificate policy to verify that the CA is operated solely for the purposes of remote key distribution.	Documented certificate policy reviewed:	<Report Findings Here>
6F-1.4 Private keys used to sign certificates, certificate status lists, messages, or for key protection must exist only in one or more of the following forms: <ul style="list-style-type: none"> • Within a secure cryptographic device that meets applicable PCI requirements for such a device, • Encrypted using an algorithm and key size of equivalent or greater strength, or • As components using a recognized (e.g., Shamir) secret-sharing scheme. 		
6F-1.4.a Examine documented key-management procedures to verify that private keys used to sign certificates, certificate-status lists, messages, or for key protection must exist only in one or more of the approved forms at all times.	Documented key-management procedures reviewed:	<Report Findings Here>
6F-1.4.b Observe key-management operations and interview key custodians and key-management supervisory personnel to verify that private keys used to sign certificates, certificate-status lists, messages, or for key protection must exist only in one or more of the approved forms at all times.	Key custodians interviewed:	<Report Findings Here>
	Key-management supervisory personnel interviewed:	<Report Findings Here>
	Describe how the key-management operations observed verified that private keys used to sign certificates, certificate-status lists, messages, or for key protection must exist only in one or more of the approved forms at all times: <Report Findings Here>	
6F-2.6 Root CAs must provide for segmentation of risk to address key compromise. An example of this would be the deployment of subordinate CAs.		

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
6F-2.6 Through the examination of documented procedures, interviews and observation confirm that Root CAs provide for segmentation of risk to address key compromise.	Documented procedures reviewed:	<Report Findings Here>
	Personnel interviewed:	<Report Findings Here>
	Describe the observations that confirmed that Root CAs provide for segmentation of risk to address key compromise:	
	<Report Findings Here>	
6F-2.7 Mechanisms must be in place to respond to address compromise of a CA due to, for example, key compromise or mismanagement. This must include procedures to revoke or otherwise invalidate the usage of subordinate certificates, and notification of affected entities.		
6F-2.7.a Examine documented procedures to verify that mechanisms are defined to respond to compromise of a CA. Verify the mechanisms include procedures to: <ul style="list-style-type: none"> • Revoke subordinate certificates, and • Notify affected entities. 	Documented procedures reviewed:	<Report Findings Here>
6F-2.7.b Interview responsible personnel to verify that the defined mechanisms to respond to compromise of a CA are in place and include: <ul style="list-style-type: none"> • Revoke subordinate certificates, and • Notify affected entities. 	Responsible personnel interviewed:	<Report Findings Here>
6F-2.7.1 The CA must cease issuance of certificates if a compromise is known or suspected and perform a damage assessment, including a documented analysis of how and why the event occurred.		
6F-2.7.1.a Examine documented procedures to verify that the following are required in the event a compromise is known or suspected: <ul style="list-style-type: none"> • The CA will cease issuance of certificates. • The CA will perform a damage assessment, including a documented analysis of how and why the event occurred. 	Documented procedures reviewed:	<Report Findings Here>
6F-2.7.1.b Interview responsible personnel and observe process to verify that in the event a compromise is known or suspected: <ul style="list-style-type: none"> • The CA will cease issuance of certificates. • The CA will perform a damage assessment, including a documented analysis of how and why the event occurred. 	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the observed process verified that in the event a compromise is known or suspected: <ul style="list-style-type: none"> • The CA will cease issuance of certificates. • The CA will perform a damage assessment, including a documented analysis of how and why the event occurred 	
	<Report Findings Here>	
6F-2.7.2 In the event of confirming a compromise, the CA must determine whether to revoke and reissue all signed certificates with a newly generated signing key.		

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
6F-2.7.2.a Examine documented procedures to verify that in the event of a confirmed compromise, procedures are defined for the CA to determine whether to revoke and reissue all signed certificates with a newly generated signing key.	Documented procedures reviewed:	<Report Findings Here>
6F-2.7.2.b Interview responsible personnel to verify procedures are followed for the CA to determine whether to revoke and reissue all signed certificates with a newly generated signing key.	Responsible personnel interviewed:	<Report Findings Here>
6F-2.7.3 Mechanisms (e.g., time stamping) must exist to prevent the usage of fraudulent certificates, once identified.		
6F-2.7.3.a Examine documented procedures to verify that mechanisms are defined to prevent the usage of fraudulent certificates.	Documented procedures reviewed:	<Report Findings Here>
6F-2.7.3.b Interview responsible personnel and observe implemented mechanisms to verify the prevention of the use of fraudulent certificates	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the implemented mechanisms observed verified the prevention of the use of fraudulent certificates: <Report Findings Here>	
6F-2.7.4 The compromised CA must notify any superior or subordinate CAs of the compromise. The compromise damage analysis must include a determination of whether subordinate CAs and KDHS must have their certificates reissued and distributed to them or be notified to apply for new certificates.		
6F-2.7.4.a Examine documented procedures to verify that the following procedures are required in the event of a compromise: <ul style="list-style-type: none"> • The CA will notify any superior CAs. • The CA will notify any subordinate CAs. • The CA will perform a damage assessment to determine the need to either: <ul style="list-style-type: none"> – Reissue and distribute certificates to affected parties, or – Notify the affected parties to apply for new certificates. 	Documented procedures reviewed:	<Report Findings Here>
6F-2.7.4.b Interview responsible personnel to verify that the following procedures are performed in the event a compromise: <ul style="list-style-type: none"> • The CA notifies any superior CAs. • The CA notifies any subordinate CAs. • The CA performs a damage assessment to determine the need to either: <ul style="list-style-type: none"> – Reissues and distributes certificates to affected parties, or – Notifies the affected parties to apply for new certificates. 	Responsible personnel interviewed:	<Report Findings Here>
6F-2.8 Minimum cryptographic strength for the CA system shall be: <ul style="list-style-type: none"> • Root and subordinate CAs have a minimum RSA 2048 bits or equivalent; • EPP/PED devices and KDHS have a minimum RSA 1024 bits or equivalent. <i>Effective 1 January 2017, KDHS must use a minimum RSA 2048 bits or equivalent. The key-pair lifecycle shall result in expiration of KDH keys every five years, unless another mechanism exists to prevent the use of a compromised KDH private key.</i>		

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
6F-2.8.a Interview appropriate personnel and examine documented procedures for the creation of these keys.	Appropriate personnel interviewed:	<Report Findings Here>
	Documented procedures reviewed:	<Report Findings Here>
6F-2.8.b Verify that the following minimum key sizes exist for RSA keys or the equivalent for the algorithm used as defined in Annex C: <ul style="list-style-type: none"> • 2048 for CAs • 1024 for KDHS and POI devices 	Appropriate personnel interviewed:	<Report Findings Here>
	Documented procedures reviewed:	<Report Findings Here>
6F-2.8.c Verify that KDH keys expire every five years unless another mechanism exists to prevent the use of a compromised KDH private key.	Appropriate personnel interviewed:	<Report Findings Here>
	Documented procedures reviewed:	<Report Findings Here>
6F-5.2 All user access to material that can be used to construct secret and private keys (such as key components) must be directly attributable to an individual user (e.g., through the use of unique IDs).		
6F-5.2.a Examine documented procedures to confirm that access to material that can be used to construct secret and private keys is directly attributable to an individual user	Documented procedures reviewed:	<Report Findings Here>
6F-5.2.b Observe the access-control mechanisms in place to verify that access to material that can be used to construct secret and private keys is directly attributable to an individual user.	Describe how the access-control mechanisms observed verified that access to material that can be used to construct secret and private keys is directly attributable to an individual user:	
	<Report Findings Here>	
6F-5.2.1 All user access must be restricted to actions authorized for that role. <i>Note: Examples of how access can be restricted include the use of CA software and operating-system and procedural controls.</i>		
6F-5.2.1.a Examine documented procedures to confirm that access to material that can be used to construct secret and private keys must be restricted to actions authorized for that role.	Documented procedures reviewed:	<Report Findings Here>
6F-5.2.1.b Observe user role assignments and access-control mechanisms to verify that access to material that can be used to construct secret and private keys is restricted to actions authorized for that role.	Describe how the user role assignments and access-control mechanisms observed verified that access to material that can be used to construct secret and private keys is restricted to actions authorized for that role:	
	<Report Findings Here>	
6F-5.3 The system enforces an explicit and well-defined certificate security policy and certification practice statement. This must include the following:		
6F-5.3.1 CA systems that issue certificates to other CAs and KDHS must be operated offline using a dedicated closed network (not a network segment). <ul style="list-style-type: none"> • The network must only be used for certificate issuance and/or revocation. • Outside network access shall exist only for the purposes of “pushing” certificate-status information to relying parties (e.g., KDHS). 		

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings
6F-5.3.1 Examine network diagrams and observe network and system configurations to verify: <ul style="list-style-type: none"> • CA systems that issue certificates to other CAs and KDHS are operated offline using a dedicated closed network (not a network segment). • The network is only used for certificate issuance, revocation, or both certificate issuance and revocation. • Outside network access shall exist only for the purposes of “pushing” certificate-status information to relying parties (e.g., KDHS). 	Network diagrams reviewed: <Report Findings Here>
	Describe how the network diagrams and network and system configurations observed verified that: <ul style="list-style-type: none"> • CA systems that issue certificates to other CAs and KDHS are operated offline using a dedicated closed network (not a network segment). • The network is only used for certificate issuance, revocation, or both certificate issuance and revocation. • Outside network access shall exist only for the purposes of “pushing” certificate-status information to relying parties (e.g., KDHS)
	<Report Findings Here>
6F-5.3.2 CA or Registration Authority (RA) software updates must not be done over the network (local console access must be used for CA or RA software updates).	
6F-5.3.2 Examine software update processes to verify that local console access is used for all CA or RA software updates.	Documented software update processes reviewed: <Report Findings Here>
6F-5.3.3 Non-console access must use two-factor authentication. This also applies to the use of remote console access.	
6F-5.3.3 Examine remote-access mechanisms and system configurations to verify that all non-console access, including remote access, requires two-factor authentication.	Describe how the remote-access mechanisms and system configurations examined verified that all non-console access, including remote access, requires two-factor authentication:
	<Report Findings Here>
6F-5.3.4 Non-console user access to the CA or RA system environments shall be protected by authenticated encrypted sessions. No other remote access is permitted to the host platform(s) for system or application administration. Note: Access for monitoring only (no create, update, delete capability) of online systems may occur without restriction.	
6F-5.3.4.a Examine non-console access mechanisms and system configurations to verify that all non-console user access is protected by authenticated encrypted sessions.	Describe how the non-console access mechanisms and system configurations examined verified that all non-console user access is protected by authenticated encrypted sessions:
	<Report Findings Here>
6F-5.3.4.b Observe an authorized CA personnel attempt non-console access to the host platform using valid CA credentials without using an authenticated encrypted session to verify that non-console access is not permitted.	Describe how observation of the authorized CA personnel’s attempted non-console access to the host platform using valid CA credentials without using an authenticated encrypted session verified that non-console access is not permitted:
	<Report Findings Here>
6F-5.3.5 CA certificate (for POI/KDH authentication and validity status checking) signing keys must only be enabled under at least dual control. Note: Certificate requests may be vetted (approved) using single user logical access to the RA application.	

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Requirements and Testing Procedures		Reporting Instructions and Assessor's Findings		
6F-5.3.5.a Examine the certificate security policy and certification practice statement to verify that CA certificate-signing keys must only be enabled under at least dual control.	Documented certificate security policy and certification practice statement reviewed:	<Report Findings Here>		
	6F-5.3.5.b Observe certificate-signing processes to verify that signing keys are enabled only under at least dual control.	Describe how the certificate-signing processes observed verified that signing keys are enabled only under at least dual control:	<Report Findings Here>	
6F-5.4 The CA shall require a separation of duties for critical CA functions to prevent one person from maliciously using a CA system without detection, the practice referred to as "dual control." At a minimum, there shall be multi-person control for operational procedures such that no one person can gain control over the CA signing key(s).				
6F-5.4.a Examine documented procedures to verify they include following: <ul style="list-style-type: none"> • Definition of critical functions of the CA • Separation of duties to prevent one person from maliciously using a CA system without detection • Multi-person control for operational procedures such that no one person can gain control over the CA signing key(s) 	Documented procedures reviewed:	<Report Findings Here>		
	6F-5.4.b Observe CA operations and interview responsible personnel to verify: <ul style="list-style-type: none"> • Definition of Critical functions of the CA • Separation of duties to prevent one person from maliciously using a CA system without detection • Multi-person control for operational procedures such that no one person can gain control over the CA signing key(s) 	Responsible personnel interviewed:	<Report Findings Here>	
		Describe how the CA operations observed verified: <ul style="list-style-type: none"> • Definition of Critical functions of the CA • Separation of duties to prevent one person from maliciously using a CA system without detection • Multi-person control for operational procedures such that no one person can gain control over the CA signing key(s) 	<Report Findings Here>	
6F-5.5 All CA systems that are not operated strictly offline must be hardened to prevent insecure network access, to include: <ul style="list-style-type: none"> • Services that are not necessary or that allow non-secure access (e.g., rlogin, rshell, telnet, ftp, etc.) must be removed or disabled. • Unnecessary ports must also be disabled. • Documentation must exist to support the enablement of all active services and ports. 				
6F-5.5.a Examine system documentation to verify the following is required: <ul style="list-style-type: none"> • Services that are not necessary or that allow non-secure access (e.g., rlogin, rshell, etc., commands in UNIX) must be removed or disabled. • Unnecessary ports must also be disabled. • Documentation must exist to support the enablement of all active services and ports. 	System documentation reviewed:	<Report Findings Here>		

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Requirements and Testing Procedures		Reporting Instructions and Assessor's Findings	
<p>6F-5.5.b For a sample of systems, examine documentation supporting the enablement of active services and ports, and observe system configurations to verify:</p> <ul style="list-style-type: none"> • Services that are not necessary or that allow non-secure access (e.g., rlogin, rshell, etc., commands in UNIX) are removed or disabled. • Unnecessary ports are disabled. • There is documentation to support all active services and ports. 	Sample of systems reviewed:	<Report Findings Here>	
	Documentation reviewed:	<Report Findings Here>	
	Describe how the observed system configurations observed verified that:	<ul style="list-style-type: none"> • Services that are not necessary or that allow non-secure access (e.g., rlogin, rshell, etc., commands in UNIX) are removed or disabled. • Unnecessary ports are disabled. • There is documentation to support all active services and ports. 	
	<Report Findings Here>		
<p>6F-5.5.1 All vendor-default IDs must be changed, removed, or disabled unless necessary for a documented and specific business reason. Vendor default IDs that are required as owners of objects or processes or for installation of patches and upgrades must only be enabled when required and otherwise must be disabled from login.</p>			
<p>6F-5.5.1.a Examine documented procedures to verify that:</p> <ul style="list-style-type: none"> • Vendor-default IDs are changed, removed, or disabled unless necessary for a documented and specific business reason. • Vendor default IDs that are required as owners of objects or processes or for installation of patches and upgrades are only be enabled when required and otherwise must be disabled from login. 	Documented procedures reviewed:	<Report Findings Here>	
<p>6F-5.5.1.b Examine system configurations and interview responsible personnel to verify that:</p> <ul style="list-style-type: none"> • Vendor-default IDs are changed, removed or disabled unless necessary for a documented and specific business reason. • Vendor default IDs that are required as owners of objects or processes or for installation of patches and upgrades are only be enabled when required and otherwise must be disabled from login. 	Responsible personnel interviewed:	<Report Findings Here>	
	Describe how the system configurations observed verified that vendor-default IDs are changed, removed or disabled unless necessary for a documented and specific business reason:		
	<Report Findings Here>		
	Describe how the system configurations observed verified that vendor default IDs that are required as owners of objects or processes or for installation of patches and upgrades are only be enabled when required and otherwise must be disabled from login:		
<Report Findings Here>			
<p>6F-5.5.2 Vendor defaults, including passwords and SNMP strings, that exist and are not addressed in the prior step must be changed, removed, or disabled before installing a system on the network.</p>			
<p>6F-5.5.2.a Examine documented procedures to verify that vendor defaults, including passwords and SNMP strings, that exist and are not addressed in the prior step are changed, removed, or disabled before installing a system on the network.</p>	Documented procedures reviewed:	<Report Findings Here>	

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
6F-5.5.2.b Examine system configurations and interview responsible personnel to verify that vendor defaults, including passwords and SNMP strings, that exist and are not addressed in the prior step are changed, removed, or disabled before installing a system on the network.	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the system configurations observed verified that vendor defaults, including passwords and SNMP strings, that exist and are not addressed in the prior step are changed, removed, or disabled before installing a system on the network:	
	<Report Findings Here>	
6F-5.6 Audit trails must include but not be limited to the following: <ul style="list-style-type: none"> • All key-management operations, such as key generation, loading, transmission, backup, recovery, compromise, and destruction and certificate generation or revocation • The identity of the person authorizing the operation • The identities of all persons handling any key material (such as key components or keys stored in portable devices or media) • Protection of the logs from alteration and destruction 		
6F-5.6.a Examine system configurations and audit trails to verify that all key-management operations are logged.	Describe how the system configurations and audit trails observed verified that all key-management operations are logged:	
	<Report Findings Here>	
6F-5.6.b For a sample of key-management operations, examine audit trails to verify they include: <ul style="list-style-type: none"> • The identity of the person authorizing the operation • The identities of all persons handling any key material • Mechanisms exist to protect logs from alteration and destruction 	Sample of key-management operations reviewed:	<Report Findings Here>
	Describe how the examined audit trails for a sample of key-management operations verified they include: <ul style="list-style-type: none"> • The identity of the person authorizing the operation • The identities of all persons handling any key material • Mechanisms exist to protect logs from alteration and destruction 	
	<Report Findings Here>	
6F-5.6.1 Audit logs must be archived for a minimum of two years.		
6F-5.6.1 Examine audit trail files to verify that they are archived for a minimum of two years.	Describe how the examined audit trails verified that they are archived for a minimum of two years:	
	<Report Findings Here>	
6F-5.6.2 Records pertaining to certificate issuance and revocation must, at a minimum, be retained for the life of the associated certificate.		
6F-5.6.2.a For a sample of certificate issuances, examine audit records to verify that the records are retained for at least the life of the associated certificate.	Sample of certificate issuances reviewed:	<Report Findings Here>
	Audit records examined:	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
6F-5.6.2.b For a sample of certificate revocations, examine audit records to verify that the records are retained for at least the life of the associated certificate.	Sample of certificate revocations reviewed:	<Report Findings Here>
	Audit records examined:	<Report Findings Here>
6F-5.6.3 Logical events are divided into operating-system and CA application events. For both, the following must be recorded in the form of an audit record: <ul style="list-style-type: none"> • Date and time of the event, • Identity of the entity and/or user that caused the event, • Type of event, and • Success or failure of the event. 		
6F-5.6.3.a Examine audit trails to verify that logical events are divided into operating-system and CA application events.	Describe how the examined audit trails verified that logical events are divided into operating system and CA application events:	
	<Report Findings Here>	
6F-6.3.b Examine a sample of operating-system logs to verify they contain the following information: <ul style="list-style-type: none"> • Date and time of the event, • Identity of the entity and/or user that caused the event, • Type of event, and • Success or failure of the event. 	Sample of operating-system logs reviewed:	<Report Findings Here>
6F-5.6.3.c Examine a sample of application logs to verify they contain the following information: <ul style="list-style-type: none"> • Date and time of the event, • Identity of the entity and/or user that caused the event, • Type of event, and • Success or failure of the event. 	Sample of application logs reviewed:	<Report Findings Here>
6F-5.7 CA application logs must use a digital signature or a symmetric MAC (based on one of the methods stated in <i>ISO 16609 – Banking – Requirements for message authentication using symmetric techniques</i>) mechanism for detection of alteration. The signing/MACing key(s) used for this must be protected using a secure cryptographic device in accordance with the key-management requirements stipulated in this document.		

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings
6F-5.7.a Examine log security controls to verify that CA application logs use a digital signature or a symmetric MAC (based on one of the methods stated in <i>ISO 16609 – Banking – Requirements for message authentication using symmetric techniques</i>) mechanism for detection of alteration.	Describe how log security controls verified that CA application logs use a digital signature or a symmetric MAC (based on one of the methods stated in <i>ISO 16609 – Banking – Requirements for message authentication using symmetric techniques</i>) mechanism for detection of alteration: <Report Findings Here>
	<Report Findings Here>
6F-5.7.b Review documentation and interview personnel and observe to verify that signing/MACing key(s) used for this are protected using a secure cryptographic device in accordance with the key-management requirements stipulated in this document.	Documentation reviewed: <Report Findings Here>
	Personnel interviewed: <Report Findings Here>
	Describe how the observation of signing/MACing keys used for this verified they are protected using a secure cryptographic device in accordance with the key-management requirements stipulated in this document:
	<Report Findings Here>
6F-5.7.1 Certificate-processing system components operated online must be protected by a firewall(s) from all unauthorized access, including casual browsing and deliberate attacks. Firewalls must minimally be configured to: <ul style="list-style-type: none"> • Deny all services not explicitly permitted. • Disable or remove all unnecessary services, protocols, and ports. • Fail to a configuration that denies all services, and require a firewall administrator to re-enable services after a failure. • Disable source routing on the firewall. • Not accept traffic on its external interfaces that appears to be coming from internal network addresses. • Notify the firewall administrator in near real time of any item that may need immediate attention such as a break-in, little disk space available, or other related messages so that an immediate action can be taken. • Run on a dedicated computer: All non-firewall related software, such as compilers, editors, communications software, etc., must be deleted or disabled. 	
6F-5.7.1.a Examine network and system configurations to verify that certificate-processing system components operated online are protected from unauthorized access by firewall(s).	Describe how the observed network and system configurations verified that certificate-processing system components operated online are protected from unauthorized access by firewall(s):
	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings
<p>6F-5.7.1.b Examine firewall configurations for verify they are configured to:</p> <ul style="list-style-type: none"> Deny all services not explicitly permitted. Disable or remove all unnecessary services, protocols, and ports. Fail to a configuration that denies all services, and require a firewall administrator to re-enable services after a failure. Disable source routing on the firewall. Not accept traffic on its external interfaces that appears to be coming from internal network addresses. Notify the firewall administrator in near real time of any item that may need immediate attention such as a break-in, little disk space available, or other related messages so that an immediate action can be taken. Run on a dedicated computer: All non-firewall related software, such as compilers, editors, communications software, etc., must be deleted or disabled. 	<p>Describe how the observed firewall configurations verified they are configured to:</p> <ul style="list-style-type: none"> Deny all services not explicitly permitted. Disable or remove all unnecessary services, protocols, and ports. Fail to a configuration that denies all services, and require a firewall administrator to re-enable services after a failure. Disable source routing on the firewall. Not accept traffic on its external interfaces that appears to be coming from internal network addresses. Notify the firewall administrator in near real time of any item that may need immediate attention such as a break-in, little disk space available, or other related messages so that an immediate action can be taken. Run on a dedicated computer: All non-firewall related software, such as compilers, editors, communications software, etc., must be deleted or disabled. <p align="center"><Report Findings Here></p>
<p>6F-5.7.2 Online certificate-processing systems must employ individually or in combination network and host-based intrusion detection systems (IDS) to detect inappropriate access. At a minimum, database servers and the application servers for RA and web, as well as the intervening segments, must be covered.</p>	
<p>6F-5.7.2.a Observe network-based and/or host-based IDS configurations to verify that on-line certificate-processing systems are protected by IDS to detect inappropriate access.</p>	<p>Describe how the observed network-based and/or host-based IDS configurations verified that on-line certificate-processing systems are protected by IDS to detect inappropriate access:</p> <p align="center"><Report Findings Here></p>
<p>6F-5.7.2.b Verify that IDS coverage includes all database servers, RA application servers and web servers, as well as the intervening segments.</p>	<p>Describe how the observed network-based and/or host-based IDS configurations verified that IDS coverage includes all database servers, RA application servers and web servers, as well as the intervening segments:</p> <p align="center"><Report Findings Here></p>
<p>6F-5.8 Implement user-authentication management for all system components as follows:</p>	
<p>6F-5.8.1 Initial, assigned passphrases are pre-expired (user must replace at first logon).</p>	
<p>6F-5.8.1 Examine password procedures and observe security personnel to verify that first-time passwords for new users, and reset passwords for existing users, are set to a unique value for each user and are pre-expired.</p>	<p>Documented password procedures reviewed:</p> <p align="center"><Report Findings Here></p>
	<p>Describe the observations that verified that security personnel set first-time passwords for new users, and reset passwords for existing users, to a unique value for each user and are pre-expired:</p>
	<p align="center"><Report Findings Here></p>

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
6F-5.8.2 Use of group, shared, or generic accounts and passwords, or other authentication methods is prohibited.		
6F-5.8.2.a For a sample of system components, examine user ID lists to verify the following: <ul style="list-style-type: none"> • Generic user IDs and accounts 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. 	Sample of system components reviewed:	<Report Findings Here>
	Describe how user ID lists verified that: <ul style="list-style-type: none"> • Generic user IDs and accounts 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 	
	<Report Findings Here>	
6F-5.8.2.b Examine authentication policies/procedures to verify that group and shared passwords or other authentication methods are explicitly prohibited.	Documented authentication policies/procedures reviewed:	<Report Findings Here>
6F-5.8.2.c Interview system administrators to verify that group and shared passwords or other authentication methods are not distributed, even if requested.	System administrators interviewed:	<Report Findings Here>
6F-5.8.3 If passwords are used, system-enforced expiration life must not exceed 30 days and a minimum life at least one day.		
6F-5.8.3 For a sample of system components, obtain and inspect system configuration settings to verify that user password parameters are set to require users to change passwords at least every 30 days and have a minimum life of at least one day.	Sample of system components reviewed:	<Report Findings Here>
	Describe how the observed system configuration settings verified that user password parameters are set to require users to change passwords at least every 30 days and have a minimum life of at least one day:	
	<Report Findings Here>	
6F-5.8.4 Passwords must have a minimum length of eight characters using a mix of alphabetic, numeric, and special characters.		
6F-5.8.4 For a sample of system components, obtain and inspect system configuration settings to verify that password parameters are set to require passwords to be at least eight characters long and contain numeric, alphabetic, and special characters.	Sample of system components reviewed:	<Report Findings Here>
	Describe how the observed system configuration settings verified that password parameters are set to require passwords to be at least eight characters long and contain numeric, alphabetic, and special characters:	
	<Report Findings Here>	
6F-5.8.5 Limit repeated access attempts by locking out the user ID after not more than five attempts.		

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Requirements and Testing Procedures		Reporting Instructions and Assessor’s Findings	
6F-5.8.5 For a sample of system components, obtain and inspect system configuration settings to verify that authentication parameters are set to require that a user’s account be locked out after not more than five invalid logon attempts.	Sample of system components reviewed:	<Report Findings Here>	
	Describe how the observed system configuration settings verified that authentication parameters are set to require that a user’s account be locked out after not more than five invalid logon attempts:		
	<Report Findings Here>		
6F-5.8.6 Authentication parameters must require a system-enforced passphrase history, preventing the reuse of any passphrase used in the last 12 months.			
6F-5.8.6 For a sample of system components, obtain and inspect system configuration settings to verify that authentication parameters are set to require a system-enforced passphrase history, preventing the reuse of any passphrase used in the last 12 months.	Sample of system components reviewed:	<Report Findings Here>	
	Describe how the observed system configuration settings verified that authentication parameters are set to require a system-enforced passphrase history, preventing the reuse of any passphrase used in the last 12 months:		
	<Report Findings Here>		
6F-5.8.7 Passwords are not stored on any of the systems except in encrypted form or as part of a proprietary one-way transformation process, such as those used in UNIX systems.			
6F-5.8.7 For a sample of system components, obtain and inspect system configuration settings to verify that passwords are not stored unless encrypted as part of a proprietary one-way hash.	Sample of system components reviewed:	<Report Findings Here>	
	Describe how the observed system configuration settings verified that passwords are not stored unless encrypted as part of a proprietary one-way hash:		
	<Report Findings Here>		
6F-5.8.8 The embedding of passwords in shell scripts, command files, communication scripts, etc. is strictly prohibited.			
6F-5.8.8.a Review policies and procedures and interview personnel to determine that the embedding of passwords in shell scripts, command files, communication scripts, etc. is strictly prohibited.	Documented policies and procedures reviewed:	<Report Findings Here>	
	Personnel interviewed:	<Report Findings Here>	
6F-5.8.8.b Inspect a sample of shell scripts, command files, communication scripts, etc. to verify that passwords are not embedded in shell scripts, command files, or communication scripts.	Sample of shell scripts, command files, communication scripts, etc. inspected:	<Report Findings Here>	
6F-5.8.9 Where log-on security tokens (e.g., smart cards) are used, the security tokens must have an associated usage-authentication mechanism, such as a biometric or associated PIN/passphrase to enable their usage. The PIN/passphrase must be at least eight decimal digits in length, or equivalent. Note: Log-on security tokens (e.g., smart cards) and encryption devices are not subject to the pass-phrase management requirements for password expiry as stated above.			

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6F-5.8.9.a If log-on security tokens are used, observe devices in use to verify that the security tokens have an associated usage-authentication mechanism, such as a biometric or associated PIN/passphrase to enable their usage.	Describe how the observed devices in use verified that the security tokens have an associated usage-authentication mechanism, such as a biometric or associated PIN/passphrase to enable their usage: <Report Findings Here>	
6F-5.8.9.b Examine token-configuration settings to verify parameters are set to require PINs/passwords be at least eight decimal digits in length, or equivalent.	Describe how the observed token-configuration settings verified that parameters are set to require PINs/passwords be at least eight decimal digits in length, or equivalent: <Report Findings Here>	
6F-5.9 Implement a method to synchronize all critical system clocks and times for all systems involved in key-management operations.		
6F-5.9.a Examine documented procedures and system configuration standards to verify a method is defined to synchronize all critical system clocks and times for all systems involved in key-management operations.	Documented procedures and system configuration standards reviewed:	<Report Findings Here>
6F-5.9.b For a sample of critical systems, review the time-related system parameters to verify that system clocks and times are synchronized for all systems involved in key-management operations.	Sample of critical systems reviewed:	<Report Findings Here>
	Describe how the observed time-related system parameters verified that system clocks and times are synchronized for all systems involved in key-management operations: <Report Findings Here>	
	Documented procedures reviewed:	<Report Findings Here>
6F-5.9.c If a manual process is defined, verify that the documented procedures require that it occur at least quarterly.	Documented procedures reviewed:	<Report Findings Here>
6F-5.9.d If a manual process is defined, examine system configurations and synchronization logs to verify that the process occurs at least quarterly.	Describe how the observed system configurations and synchronization logs verified that where a manual process is defined, that the process occurs at least quarterly: <Report Findings Here>	
	<Report Findings Here>	
6F-8.2 CA operations must be dedicated to certificate issuance and management. All physical and logical CA system components must be separated from key-distribution systems.		
6F-8.2.a Examine documented procedures to verify: <ul style="list-style-type: none"> CA operations must be dedicated to certificate issuance and management. All physical and logical CA system components must be separated from key-distribution systems. 	Documented procedures reviewed:	<Report Findings Here>
	Describe how the observed CA system configurations and operations verified that they are dedicated to certificate issuance and management: <Report Findings Here>	
6F-8.2.b Observe CA system configurations and operations to verify they are dedicated to certificate issuance and management.	<Report Findings Here>	

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Requirements and Testing Procedures		Reporting Instructions and Assessor’s Findings	
6F-8.2.c Observe system and network configurations and physical access controls to verify that all physical and logical CA system components are separated from key-distribution systems.	Describe how the observed system and network configurations and physical access controls verified that all physical and logical CA system components are separated from key-distribution systems:		
	<Report Findings Here>		
6F-8.3 Each CA operator must develop a certification practice statement (CPS). (See RFC 3647- Internet X.509 Public Key Infrastructure Certificate Policy and Certification Practices Framework for an example of content.) <ul style="list-style-type: none"> The CPS must be consistent with the requirements described within this document. The CA shall operate in accordance with its CPS. Note: This may take the form of a declaration by the CA operator of the details of its trustworthy system and the practices it employs in its operations and in support of the issuance of certificates. A CPS may take the form of either a specific, single document or a collection of specific documents. The CPS must be consistent with the requirements described within this document. The CA shall operate in accordance with its CPS.			
6F-8.3.a Examine documented certification practice statement (CPS) to verify that the CPS is consistent with the requirements described within this document.	Documented certification practice statement (CPS) reviewed:	<Report Findings Here>	
6F-8.3.b Examine documented operating procedures to verify they are defined in accordance with the CPS.	Documented operating procedures reviewed:	<Report Findings Here>	
6F-8.3.c Interview personnel and observe CA processes to verify that CA operations are in accordance with its CPS.	Personnel interviewed:	<Report Findings Here>	
	Describe how the observed CA processes verified that CA operations are in accordance with its CPS:		
	<Report Findings Here>		
6F-8.4 Each CA operator must develop a certificate policy. (See RFC 3647- Internet X.509 Public Key Infrastructure Certificate Policy and Certification Practices Framework for an example of content.)			
6F-8.4 Examine documented certificate policy to verify that the CA has one in place.	Documented certificate policy reviewed:	<Report Findings Here>	
6F-8.5 Documented procedures exist and are demonstrably in use by CAs to validate the identity of the certificate requestor and recipient before issuing a digital certificate for the recipient’s associated public key where the certificate request is not generated with the same secure area. These procedures must include at a minimum, two or more of the following for KDH certificate requests: <ul style="list-style-type: none"> Verification of the certificate applicant’s possession of the associated private key through the use of a digitally signed certificate request pursuant to PKCS #10 or another cryptographically-equivalent demonstration; Determination that the organization exists by using at least one third-party identity-proofing service or database, or alternatively, organizational documentation issued by or filed with the applicable government agency or competent authority that confirms the existence of the organization; Confirmation by telephone, confirmatory postal mail, and/or comparable procedure to the certificate applicant to confirm that the organization has authorized the certificate application, confirmation of the employment of the representative submitting the certificate application on behalf of the certificate applicant, and confirmation of the authority of the representative to act on behalf of the certificate applicant; Confirmation by telephone, confirmatory postal mail, and/or comparable procedure to the certificate applicant’s representative to confirm that the person named as representative has submitted the certificate application. 			

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6F-8.5.a Examine documented procedures to verify they include validating the identity of the certificate requestor and recipient before issuing a digital certificate for the recipient's associated public key.	Documented procedures reviewed:	<Report Findings Here>
6F-8.5.b Observe certificate-issuing processes to verify that the identities of the certificate requestor and recipient are validated before issuing a digital certificate for the recipient's associated public key.	Describe how the certificate-issuing processes observed verified that the identities of the certificate requestor and recipient are validated before issuing a digital certificate for the recipient's associated public key:	
	<Report Findings Here>	
6F-8.5.1 For CA and KDH certificate-signing requests, including certificate or key-validity status changes—e.g., revocation, suspension, replacement—verification must include validation that: <ul style="list-style-type: none"> • The entity submitting the request is who it claims to be. • The entity submitting the request is authorized to submit the request on behalf of the certificate request's originating entity. • The entity submitting the request has a valid business relationship with the issuing authority (e.g., the vendor) consistent with the certificate being requested. • The certificate-signing request has been transferred from the certificate request's originating entity to the RA in a secure manner. 		
6F-8.5.1.a Examine documented procedures to verify that certificate-signing requests, including certificate or key-validity status changes, require validation that: <ul style="list-style-type: none"> • The entity submitting the request is who it claims to be. • The entity submitting the request is authorized to submit the request on behalf of the certificate request's originating entity. • The entity submitting the request has a valid business relationship with the issuing authority (e.g., the vendor) consistent with the certificate being requested. • The certificate-signing request has been transferred from the certificate request's originating entity to the RA in a secure manner. 	Documented procedures reviewed:	<Report Findings Here>
6F-8.5.1.b Observe certificate-signing requests, including certificate or key-validity status changes, to verify they include validation that: <ul style="list-style-type: none"> • The entity submitting the request is who it claims to be. • The entity submitting the request is authorized to submit the request on behalf of the certificate request's originating entity. • The entity submitting the request has a valid business relationship with the issuing authority (e.g., the vendor) consistent with the certificate being requested. • The certificate-signing request has been transferred from the certificate request's originating entity to the RA in a secure manner. 	Certificate-signing requests reviewed:	<Report Findings Here>
6F-8.5.2 RAs must retain documentation and audit trails relating to the identification of entities for all certificates issued and certificates whose status had changed for the life of the associated certificates.		

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Requirements and Testing Procedures		Reporting Instructions and Assessor’s Findings	
<p>6F-8.5.2 Examine documentation and audit trails to verify that the identification of entities is retained for the life of the associated certificates:</p> <ul style="list-style-type: none"> For all certificates issued For all certificates whose status had changed 	Documentation reviewed:	<Report Findings Here>	
	Describe how the observation of audit trails verified that the identification of entities is retained for the life of the associated certificates:		
	<ul style="list-style-type: none"> For all certificates issued For all certificates whose status had changed 		
<Report Findings Here>			
<p>6G-3.2.1 The certificate-processing operations center must implement a three-tier physical security boundary, as follows:</p> <ul style="list-style-type: none"> Level One Barrier – Consists of the entrance to the facility. Level Two Barrier – Secures the entrance beyond the foyer/reception area to the CA facility. Level Three Barrier – Provides access to the physically secure, dedicated room housing the CA and RA database and application servers and cryptographic devices. 			
<p>6G-3.2.1.a Examine physical security policies to verify three tiers of physical security are defined as follows:</p> <ul style="list-style-type: none"> Level One Barrier – The entrance to the facility Level Two Barrier – The entrance beyond the foyer/reception area to the CA facility Level Three Barrier – Access to the physically secure, dedicated room housing the CA and RA database and application servers and cryptographic devices 	Documented physical security policies reviewed:	<Report Findings Here>	
	Describe how the physical facility observed verified that three tiers of physical security are implemented as follows:		
<ul style="list-style-type: none"> Level One Barrier – The entrance to the facility Level Two Barrier – The entrance beyond the foyer/reception area to the CA facility Level Three Barrier – Access to the physically secure, dedicated room housing the CA and RA database and application servers and cryptographic devices 			
<Report Findings Here>			
Level 1 Barrier			
<p>6G-3.2.2 The entrance to the CA facility/building must include the following controls:</p>			
<p>6G-3.2.2.1 The facility entrance only allows authorized personnel to enter the facility.</p>			

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
6G-3.2.2.1.a Examine physical-security procedures and policies to verify they require that the facility entrance allows only authorized personnel to enter the facility.	Documented physical-security procedures and policies reviewed:	<Report Findings Here>
6G-3.2.2.1.b Observe the facility entrance and observe personnel entering the facility to verify that only authorized personnel are allowed to enter the facility.	Identify the P2PE Assessor who confirms that only authorized personnel are allowed to enter the facility:	<Report Findings Here>
6G-3.2.2.2 The facility has a guarded entrance or a foyer with a receptionist. No entry is allowed for visitors if the entryway is not staffed—i.e., only authorized personnel who badge or otherwise authenticate themselves can enter when entryway is unstaffed.		
6G-3.2.2.2.a Examine physical-security procedures and policies to verify they require that the facility have a guarded entrance or a foyer with a receptionist or the entryway prevents access to visitors.	Documented physical-security procedures and policies reviewed:	<Report Findings Here>
6G-3.2.2.2.b Observe the facility entrance to verify it has a guarded entrance or a foyer with a receptionist.	Identify the P2PE Assessor who confirms that the facility entrance has a guarded entrance or a foyer with a receptionist:	<Report Findings Here>
6G-3.2.2.3 Visitors (guests) to the facility must be authorized and be registered in a logbook.		
6G-3.2.2.3.a Examine physical-security procedures and policies to verify they require visitors to the facility to be authorized and be registered in a logbook.	Documented physical-security procedures and policies reviewed:	<Report Findings Here>
6G-3.2.2.3.b Observe the facility entrance and observe personnel entering the facility to verify that visitors are authorized and registered in a logbook.	Identify the P2PE Assessor who confirms that visitors are authorized and registered in a logbook at the facility entrance:	<Report Findings Here>
Level 2 Barrier		
6G-3.2.3 The Level 2 barrier/entrance must only allow authorized personnel beyond this entrance.		
6G-3.2.3.a Examine physical-security procedures and policies to verify that only authorized personnel are allowed beyond the Level 2 barrier/entrance.	Documented physical-security procedures and policies reviewed:	<Report Findings Here>
6G-3.2.3.b Observe personnel entering the Level 2 barrier/entrance to verify that only authorized personnel are allowed through.	Identify the P2PE Assessor who confirms that only authorized personnel are allowed to enter through the Level 2 barrier/entrance:	<Report Findings Here>
6G-3.2.3.1 Visitors must be authorized and escorted at all times within the Level 2 environment.		
6G-3.2.3.1.a Examine documented policies and procedures to verify that authorized visitors must be escorted at all times within the Level 2 environment.	Documented physical-security procedures and policies reviewed:	<Report Findings Here>

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Requirements and Testing Procedures		Reporting Instructions and Assessor’s Findings	
6G-3.2.3.1.b Interview personnel and observe visitors entering the environment to verify that visitors are authorized and escorted at all times within the Level 2 environment.	Personnel interviewed:	<Report Findings Here>	
	Identify the P2PE Assessor who confirms that visitors entering the Level 2 environment are authorized and escorted at all times:	<Report Findings Here>	
6G-3.2.3.2 Access logs must record all personnel entering the Level 2 environment. Note: The logs may be electronic, manual, or both.			
6G-3.2.3.2.a Examine documented policies and procedures to verify that access logs are required to record all personnel entering the Level 2 environment.	Documented physical-security procedures and policies reviewed:	<Report Findings Here>	
6G-3.2.3.2.b Observe personnel entering the Level 2 barrier and review corresponding access logs to verify that all entry through the Level 2 barrier is logged.	Describe how the observation of personnel entering the Level 2 barrier and the corresponding access logs verified that all entry through the Level 2 barrier is logged:		
	<Report Findings Here>		
6G-3.2.4 The Level 2 entrance must be monitored by a video-recording system.			
6G-3.2.4.a Observe the Level 2 entrance to verify that a video-recording system is in place.	Identify the P2PE Assessor who confirms the Level 2 entrance is monitored by a video-recording system:	<Report Findings Here>	
6G-3.2.4.b Review a sample of recorded footage to verify that the video-recording system captures all entry through the Level 2 entrance.	Sample of recorded footage reviewed:	<Report Findings Here>	
6G-3.2.5 The Level 3 environment must consist of a physically secure, dedicated room not used for any other business activities but certificate operations. Note: All certificate-processing operations must operate in the Level 3 environment.			
6G-3.2.5.a Examine documented policies and procedures to verify that all certificate-processing systems must be located within a Level 3 environment.	Documented policies and procedures reviewed:	<Report Findings Here>	
6G-3.2.5.b Examine physical locations of certificate operations to verify that all certificate-processing systems are located within a Level 3 secure room.	Identify the P2PE Assessor who confirms that all certificate-processing systems are located within a Level 3 secure room:	<Report Findings Here>	
6G-3.2.5.c Observe operations and interview personnel to confirm that the Level 3 secure room is not used for any business activity other than certificate operations.	Personnel interviewed:	<Report Findings Here>	
	Describe how the observation of operations verified that the Level 3 secure room is not used for any business activity other than certificate operations:		
<Report Findings Here>			
6G-3.2.5.1 Doors to the Level 3 area must have locking mechanisms.			

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
6G-3.2.5.1 Observe Level 3 environment entrances to verify that all doors to the Level 3 environment have locking mechanisms.	Identify the P2PE Assessor who confirms that all doors to the Level 3 environment have locking mechanisms:	<Report Findings Here>
6G-3.2.5.2 The Level 3 environment must be enclosed on all sides (including the ceiling and flooring areas) using techniques such as true floor-to-ceiling (slab-to-slab) walls, steel mesh, or bars. <i>For example, the Level 3 environment may be implemented within a “caged” environment.</i>		
6G-3.2.5.2.a Examine physical security documentation for the Level 3 environment to verify that the environment is enclosed on all sides (including the ceiling and flooring areas) using techniques such as have true floor-to-ceiling (slab-to-slab) walls, steel mesh, or bars	Physical security documentation reviewed:	<Report Findings Here>
6G-3.2.5.2.b Examine the physical boundaries of the Level 3 environment to verify that the environment is enclosed on all sides (including the ceiling and flooring areas) using techniques such as true floor-to-ceiling (slab-to-slab) walls, steel mesh, or bars and protection from entry from below floors and above ceilings.	Describe how examination of the physical boundaries of the Level 3 environment verified that the environment is enclosed on all sides (including the ceiling and flooring areas) using techniques such as true floor-to-ceiling (slab-to-slab) walls, steel mesh, or bars and protection from entry from below floors and above ceilings:	
	<Report Findings Here>	
6G-3.2.6 Documented procedures must exist for: <ul style="list-style-type: none"> Granting, revocation, and review of access privileges by an authorized officer of the entity operating the CA Specific access authorizations, whether logical or physical 		
6G-3.2.6.a Examine documented procedures to verify they include the following: <ul style="list-style-type: none"> Granting, revocation, and review of access privileges by an authorized officer of the entity operating the CA Specific access authorizations, whether logical or physical 	Documented procedures reviewed:	<Report Findings Here>
6G-3.2.6.b Interview responsible personnel to verify that the documented procedures are followed for: <ul style="list-style-type: none"> Granting, revocation, and review of access privileges by an authorized officer of the entity operating the CA Specific access authorizations, whether logical or physical 	Responsible personnel interviewed:	<Report Findings Here>
6G-3.2.6.1 All authorized personnel with access through the Level 3 barrier must: <ul style="list-style-type: none"> Have successfully completed a background security check. Be assigned resources (staff, dedicated personnel) of the CA operator with defined business needs and duties. Note: <i>This requirement applies to all personnel with pre-designated access to the Level 3 environment.</i>		

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6G-3.2.6.1.a Examine documented policies and procedures to verify they require personnel authorized as having access through the Level 3 barrier to: <ul style="list-style-type: none"> Have successfully completed a background security check. Be assigned resources of the CA operator with defined business needs and duties. 	Documented policies and procedures reviewed:	<Report Findings Here>
6G-4.2.6.1.b Interview responsible HR personnel to verify that background checks are conducted (within the constraints of local laws) on CA personnel prior such personnel being authorized for access through the Level 3 barrier.	Responsible HR personnel interviewed:	<Report Findings Here>
6G-3.2.6.1.c Interview a sample of personnel authorized for access through the Level 3 barrier to verify that they are assigned resources of the CA with defined business needs and duties.	Sample of personnel authorized for access through the Level 3 barrier interviewed:	<Report Findings Here>
6G-3.2.6.2 Other personnel requiring entry to this level must be accompanied by two (2) authorized and assigned resources at all times.		
6G-3.2.6.2.a Examine documented policies and procedures to verify that personnel requiring entry to this level must be accompanied by two (2) authorized and assigned resources at all times.	Documented policies and procedures reviewed:	<Report Findings Here>
6G-3.2.6.2.b Interview a sample of responsible personnel to verify that personnel requiring entry to this level are accompanied by two (2) authorized and assigned resources at all times.	Sample of responsible personnel interviewed:	<Report Findings Here>
6G-3.2.7 The Level 3 environment must require dual-control access and dual-occupancy such that the room is never occupied by one person for more than thirty (30) seconds—i.e., one person may never be in the room for more than 30 seconds alone. <i>For example: The Level 3 room is never occupied by one person except during the time of entry and/or exit, and the period for entry/exit does not exceed 30 seconds.</i>		
6G-3.2.7.a Examine documented policies and procedures to verify that the Level 3 environment requires dual-control access and dual-occupancy such that the room is never occupied by one person alone for more than thirty (30) seconds.	Documented policies and procedures reviewed:	<Report Findings Here>
6G-3.2.7.b Observe authorized personnel accessing the Level 3 environment to verify that dual-control access and dual-occupancy is enforced such that the room is never occupied by one person alone for more than thirty (30) seconds.	Describe how the observation of authorized personnel accessing the Level 3 environment verified that dual-control access and dual-occupancy is enforced such that the room is never occupied by one person alone for more than thirty (30) seconds: <Report Findings Here>	
6G-3.2.7.1 The mechanism for enforcing dual-control and dual-occupancy must be automated.		
6G-3.2.7.1.a Examine documented policies and procedures to verify that the defined enforcement mechanism is automated.	Documented policies and procedures reviewed:	<Report Findings Here>
6G-3.2.7.1.b Observe enforcement mechanism configuration to verify it is automated.	Identify the P2PE Assessor who confirms the enforcement mechanism configuration is automated:	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
6G-3.2.7.2 The system must enforce anti-pass-back.		
6G-3.2.7.2.a Examine documented policies and procedures to verify that the system is required to enforce anti-pass-back.	Documented policies and procedures reviewed:	<Report Findings Here>
6G-3.2.7.2.b Observe mechanisms in use and authorized personnel within the environment to verify that anti-pass-back is enforced by the conduct of a test.	Describe how the observed mechanisms in use and authorized personnel within the environment verified that anti-pass-back is enforced by the conduct of a test:	<Report Findings Here>
6G-3.2.7.3 Dual occupancy requirements are managed using electronic (e.g., badge and/or biometric) systems.		
6G-3.2.7.3.a Examine documented policies and procedures to verify that dual occupancy requirements are defined to be managed using electronic (e.g., badge and/or biometric) systems.	Documented policies and procedures reviewed:	<Report Findings Here>
6G-3.2.7.3.b Observe mechanisms in use and authorized personnel within the environment to verify that dual-occupancy requirements are managed using electronic systems.	Identify the P2PE Assessor who confirms the dual-occupancy requirements are managed using electronic systems:	<Report Findings Here>
6G-3.2.7.4 Any time a single occupancy exceeds 30 seconds, the system must automatically generate an alarm and audit event that is followed up by security personnel.		
6G-3.2.7.4.a Examine documented policies and procedures to verify that any time one person is alone in the room for more than 30 seconds, the system must automatically generate an alarm and an audit event that is followed up by security personnel.	Documented policies and procedures reviewed:	<Report Findings Here>
6G-3.2.7.4.b Observe mechanisms in use to verify that the system automatically generates an alarm event and an audit event when one person is alone in the room for more than 30 seconds.	Describe how the observed mechanisms in use verified that the system automatically generates an alarm event and an audit event when one person is alone in the room for more than 30 seconds:	<Report Findings Here>
6G-3.2.7.4.c Examine a sample of audit events and interview security personnel to verify that the audit events are followed up by security personnel.	Sample of audit events reviewed:	<Report Findings Here>
	Security personnel interviewed:	<Report Findings Here>
6G-3.2.8 Access to the Level 3 room must create an audit event, which must be logged.		

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings
6G-3.2.8 Observe authorized personnel enter the environment and examine correlating audit logs to verify that access to the Level 3 room creates an audit log event.	Correlating audit logs reviewed: <Report Findings Here>
	Describe how the observation of authorized personnel entering the environment and correlating audit logs verified that access to the Level 3 room creates an audit log event:
	<Report Findings Here>
6G-3.2.8.1 Invalid access attempts to the Level 3 room must create audit records, which must be followed up by security personnel	
6G-3.2.8.1 Observe an invalid access attempt and examine correlating audit logs to verify that invalid access attempts to the Level 3 room create an audit log event.	Correlating audit logs reviewed: <Report Findings Here>
	Describe how the observation of an invalid access attempt and correlating audit logs verified that invalid access attempts to the Level 3 room create an audit log event:
	<Report Findings Here>
6G-3.2.9 The Level 3 environment must be monitored as follows:	
6G-3.2.9.1 A minimum of one or more cameras must provide continuous monitoring (e.g., CCTV system) of the Level 3 environment, including the entry and exit. <i>Note: Motion-activated systems that are separate from the intrusion-detection system may be used to activate recording activity.</i>	
6G-3.2.9.1.a Observe the Level 3 physical environment to verify that cameras are in place to monitor the Level 3 environment, including the entry and exit.	Identify the P2PE Assessor who confirms that cameras are in place to monitor the Level 3 environment, including the entry and exit: <Report Findings Here>
	Describe how the monitoring system configurations observed verified that continuous monitoring is provided: <Report Findings Here>
6G-3.2.9.1.b Examine monitoring system configurations (e.g., CCTV systems) to verify that continuous monitoring is provided.	Describe how the configurations observed for motion-activated systems verified that they are separate from the intrusion-detection system: <Report Findings Here>
	Describe how the monitoring system configurations observed verified that: <ul style="list-style-type: none"> The system records to time-lapse VCRs or similar mechanisms. A minimum of five frames are recorded every three seconds. <Report Findings Here>
6G-3.2.9.2 The cameras must record to time-lapse VCRs or similar mechanisms, with a minimum of five frames equally recorded over every three seconds.	
6G-3.2.9.2 Examine monitoring system configurations to verify; <ul style="list-style-type: none"> The system records to time-lapse VCRs or similar mechanisms. A minimum of five frames are recorded every three seconds. 	Describe how the monitoring system configurations observed verified that: <ul style="list-style-type: none"> The system records to time-lapse VCRs or similar mechanisms. A minimum of five frames are recorded every three seconds. <Report Findings Here>
	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>6G-3.2.9.3 Continuous or motion-activated, appropriate lighting must be provided for the cameras. Note: <i>Visible spectrum lighting may not be necessary if the cameras do not require such lighting to capture images (e.g., when infrared cameras are used).</i></p>		
<p>6G-3.2.9.3.a Observe the Level 3 physical environment to verify that continuous or motion-activated lighting is provided for each camera monitoring the environment.</p>	<p>Identify the P2PE Assessor who confirms that continuous or motion-activated lighting is provided for each camera monitoring the Level 3 physical environment:</p>	<p><Report Findings Here></p>
<p>6G-3.2.9.3.b Examine a sample of captured footage from different days and times to ensure that the lighting is adequate.</p>	<p>Sample of captured footage reviewed:</p>	<p><Report Findings Here></p>
<p>6G-3.2.9.4 Surveillance cameras must be configured to prevent the monitoring of computer screens, keyboards, PIN pads, or other systems that may expose sensitive data. Cameras must not be able to be remotely adjusted to zoom in or otherwise observe the aforementioned.</p>		
<p>6G-3.2.9.4.a Observe each camera locations in the Level 3 environment to verify they are not set to monitor computer screens, keyboards, PIN pads, or other systems that may expose sensitive data.</p>	<p>Identify the P2PE Assessor who confirms that observed camera locations in the Level 3 environment are not set to monitor computer screens, keyboards, PIN pads, or other systems that may expose sensitive data:</p>	<p><Report Findings Here></p>
<p>6G-3.2.9.4.b Examine a sample of captured footage to verify it does not allow for the monitoring of computer screens, keyboards, PIN pads, or other systems that may expose sensitive data.</p>	<p>Sample of captured footage reviewed:</p>	<p><Report Findings Here></p>
<p>6G-3.2.9.5 Personnel with access to the Level 3 environment must not have access to the media (e.g., VCR tapes, digital-recording systems, etc.) containing the recorded surveillance data.</p>		
<p>6G-3.2.9.5.a Examine documented access policies and procedures to verify that personnel with access to the Level 3 environment are not permitted to have access to the media containing recorded surveillance data for that environment.</p>	<p>Documented access policies and procedures reviewed:</p>	<p><Report Findings Here></p>
<p>6G-3.2.9.5.b Examine Level 3 access lists as well as access controls to the media containing surveillance data, to verify that personnel with access to the Level 3 environment do not have access to the media containing recorded surveillance data.</p>	<p>Describe how the Level 3 access lists and access controls to the media containing surveillance data examined verified that personnel with access to the Level 3 environment do not have access to the media containing recorded surveillance data:</p>	<p><Report Findings Here></p>
<p>6G-3.2.9.6 Images recorded from the CCTV system must be securely archived for a period of no less than 45 days. If digital-recording mechanisms are used, they must have sufficient storage capacity and redundancy to prevent the loss of information necessary to reconstruct events for the most recent 45-day period.</p>		
<p>6G-3.2.9.6.a Examine storage of captured recordings to verify that at least the most recent 45 days of images are securely archived.</p>	<p>Identify the P2PE Assessor who confirms that at least the most recent 45 days of images are securely archived:</p>	<p><Report Findings Here></p>

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Requirements and Testing Procedures		Reporting Instructions and Assessor’s Findings	
6G-3.2.9.6.b If digital-recording mechanisms are used, examine system configurations to verify that the systems have sufficient redundancy to prevent the loss of information necessary to reconstruct events for the most recent 45-day period.	Describe how the system configurations observed verified that where digital-recording mechanisms are in use, the systems have sufficient redundancy to prevent the loss of information necessary to reconstruct events for the most recent 45-day period:		
	<Report Findings Here>		
6G-3.2.9.7 CCTV images must be backed up daily. The backup recording must be stored in a separate, secure location within the facility and must ensure segregation of duties between the users (personnel accessing the secure area) and administrators of the system. Alternatively, backups may be stored in other facilities via techniques such as disk mirroring, provided the storage is secure in accordance with these requirements.			
6G-3.2.9.7 Examine backup techniques utilized to ensure that: <ul style="list-style-type: none"> • Backups are securely stored in a separate location from the primary. • Ensure that segregation is maintained between users and administrators of the system. 	Describe how the observed backup techniques verified that:		
	<ul style="list-style-type: none"> • Backups are securely stored in a separate location from the primary. • Ensure that segregation is maintained between users and administrators of the system. 		
<Report Findings Here>			
6G-3.3 The environment must have continuous (24/7) intrusion-detection systems in place, which protects the secure area by motion detectors when unoccupied.			
6G-3.3.a Examine security policies and procedures to verify they require: <ul style="list-style-type: none"> • Continuous (24/7) intrusion-detection monitoring of the Level 3 environment. • Motion detectors must be active when the environment is unoccupied. 	Documented security policies and procedures reviewed:	<Report Findings Here>	
6G-3.3.b Examine intrusion-detection system configurations to verify: <ul style="list-style-type: none"> • Continuous (24/7) intrusion-detection monitoring of the Level 3 environment is in place. • Motion detectors are active when the environment is unoccupied. 	Describe how the observed intrusion-detection system configurations verified that:		
	<ul style="list-style-type: none"> • Continuous (24/7) intrusion-detection monitoring of the Level 3 environment is in place. • Motion detectors are active when the environment is unoccupied 		
<Report Findings Here>			
6G-3.3.1 Any windows in the secure area must be locked and protected by alarmed sensors.			
6G-3.3.1.a Observe all windows in the secure areas to verify they are locked and protected by alarmed sensors.	Identify the P2PE Assessor who confirms all windows in the secure areas are locked and protected by alarmed sensors:	<Report Findings Here>	
6G-3.3.1.b Examine configuration of window sensors to verify that the alarm mechanism is active.	Identify the P2PE Assessor who confirms the configuration of window sensors verified that the alarm mechanism is active:	<Report Findings Here>	

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings
6G-3.3.1.c Test at least one window (if they can be opened) to verify that the alarms function appropriately.	Describe how the testing of at least one window verified that the alarms function appropriately: <Report Findings Here>
6G-3.3.2 Any windows or glass walls must be covered, rendered opaque, or positioned to prevent unauthorized observation of the secure area.	
6G-3.3.2 Observe all windows and glass walls in the secure areas to verify they are covered, rendered opaque, or positioned to prevent unauthorized observation of the secure area.	Describe how observation of the windows and glass walls in the secure areas verified that they are covered, rendered opaque, or positioned to prevent unauthorized observation of the secure area: <Report Findings Here>
6G-3.3.3 The intrusion-detection system(s) must be connected to the alarm system and automatically activated every time all authorized personnel have performed an authenticated exit of the secure area. The system must be configured to activate within 30 seconds.	
6G-3.3.3.a Examine security system configurations to verify: <ul style="list-style-type: none"> The intrusion-detection system(s) is connected to the alarm system. The intrusion-detection system(s) is automatically activated every time all authorized personnel have exited the secure area. 	Describe how the observed security system configurations verified that: <ul style="list-style-type: none"> The intrusion-detection system(s) is connected to the alarm system. The intrusion-detection system(s) is automatically activated every time all authorized personnel have exited the secure area. <Report Findings Here>
6G-3.3.3.b Verify the IDS and alarms function correctly via: <ul style="list-style-type: none"> Having all authorized personnel who badged or otherwise authenticated into the area exit and one person remain behind even though they have badged out. Having all but one authorized person who badged or otherwise authenticated into the system badge out and exit. 	Describe how observing all authorized personnel who badged or otherwise authenticated into the area exit and one person remain behind even though they have badged out verified that IDS and alarms function correctly: <Report Findings Here> Describe how observing all but one authorized person who badged or otherwise authenticated into the system badge out and exit verified that IDS and alarms function correctly: <Report Findings Here>
6G-3.3.4 Alarm activity must include unauthorized entry attempts or any actions that disable the intrusion-detection system.	
6G-3.3.4 Examine security-system configurations to verify that an alarm event is generated for: <ul style="list-style-type: none"> Unauthorized entry attempts Actions that disable the intrusion-detection system 	Describe how the observed security-system configurations verified that an alarm event is generated for: <ul style="list-style-type: none"> Unauthorized entry attempts Actions that disable the intrusion-detection system <Report Findings Here>
6G-3.4 All personnel (including CA personnel and visitors) must sign an access logbook when entering the Level 3 environment. Note: This log is in addition to those provided by the access-control system.	

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Requirements and Testing Procedures		Reporting Instructions and Assessor’s Findings
6G-3.4.a Examine security policies and procedures to verify they require all personnel (including CA personnel and visitors) to sign an access logbook when entering the Level 3 environment.	Documented security policies and procedures reviewed:	<Report Findings Here>
6G-3.4.b On the escorted entry into the secure area, observe that all personnel appropriately sign the access logbook and that all escorted visitors are required to sign the access logbook.	Identify the P2PE Assessor who confirms that upon escorted entry into the secure area, all personnel appropriately sign the access logbook and all escorted visitors are required to sign the access logbook:	<Report Findings Here>
6G-3.4.1 The access log must include the following details: <ul style="list-style-type: none"> • Name and signature of the individual • Organization • Date and time in and out • Reason for access or purpose of visit • For visitor access, the initials of the person escorting the visitor 		
6G-3.4.1 Examine the access logbook to verify it contains the following information: <ul style="list-style-type: none"> • Name and signature of the individual • Organization • Date and time in and out • Reason for access or purpose of visit • For visitor access, the initials of the person escorting the visitor 	Identify the P2PE Assessor who confirms the access logbook contains the following: <ul style="list-style-type: none"> • Name and signature of the individual • Organization • Date and time in and out • Reason for access or purpose of visit • For visitor access, the initials of the person escorting the visitor 	<Report Findings Here>
6G-3.4.2 The logbook must be maintained within the Level 3 secure environment.		
6G-3.4.2 Observe the location of the access logbook and verify that it is maintained within the Level 3 secure environment.	Identify the P2PE Assessor who confirms the location of the access logbook is maintained within the Level 3 secure environment:	<Report Findings Here>
6G-3.5 All access-control and monitoring systems (including intrusion-detection systems) are powered through an uninterruptible power source (UPS).		
6G-3.5 Inspect uninterruptible power source (UPS) system configurations to verify that all access-control and monitoring systems, including intrusion-detection systems, are powered through the UPS.	Describe how the observed UPS system configurations verified that all access-control and monitoring systems, including intrusion-detection systems, are powered through the UPS:	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
6G-3.6 All alarm events must be documented.		
6G-3.6.a Examine security policies and procedures to verify they require that all alarm events be logged.	Documented security policies and procedures reviewed:	<Report Findings Here>
6G-3.6.b Examine security-system configurations and documented alarm events to verify that all alarm events are logged.	Documented alarm events reviewed:	<Report Findings Here>
	Describe how the observed system-configurations and documented alarm events verified that all alarm events are logged:	
	<Report Findings Here>	
6G-3.6.1 An individual must not sign off on an alarm event in which they were involved.		
6G-3.6.1.a Examine documented procedures for responding to alarm events to verify that the procedure does not permit a person who was involved in an alarm event to sign-off on that alarm event.	Documented procedures reviewed:	<Report Findings Here>
6G-3.6.1.b Determine who is authorized to sign off on alarm events.	Identify the P2PE Assessor who determined who is authorized to sign off on alarm events:	<Report Findings Here>
6G-3.6.1.c For a sample of documented alarm events, review the record to verify that personnel authorized to sign off on alarm events were not also the cause of that event.	Sample of documented alarm events reviewed:	<Report Findings Here>
	Alarm event records reviewed:	<Report Findings Here>
6G-3.6.2 The use of any emergency entry or exit mechanism must cause an alarm event.		
6G-3.6.2.a Examine security system configurations to verify that an alarm event is generated upon use of any emergency entry or exit mechanism.	Describe how the observed security system configurations verified that an alarm event is generated upon use of any emergency entry or exit mechanism:	
	<Report Findings Here>	
6G-3.6.2.b Conduct a test to verify the mechanisms work appropriately.	Describe the testing performed that verified the mechanisms work appropriately:	
	<Report Findings Here>	
6G-3.6.3 All alarms for physical intrusion necessitate an active response within 30 minutes by personnel assigned security duties.		
6G-3.6.3.a Review documented procedures to verify they require that all alarms for physical intrusion must be responded to within 30 minutes by personnel assigned security duties.	Documented procedures reviewed:	<Report Findings Here>

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Requirements and Testing Procedures		Reporting Instructions and Assessor's Findings	
6G-3.6.3.b Examine a sample of alarm events and interview personnel assigned with security-response duties to verify that alarms for physical intrusion are responded to within 30 minutes.	Sample of alarm events reviewed:	<Report Findings Here>	
	Personnel assigned with security-response duties interviewed:	<Report Findings Here>	
6G-3.6.3.c Conduct a test to verify the appropriate response occurs.	Describe the testing performed that verified the appropriate response occurs:		
	<Report Findings Here>		
6G-3.7 A process must be implemented for synchronizing the time and date stamps of the access, intrusion-detection, and monitoring (camera) systems to ensure accuracy of logs. It must be ensured that synchronization errors between CCTV, intrusion detection, and access control cannot exceed one minute. Note: This may be done by either automated or manual mechanisms.			
6G-3.7.a Examine documented procedures to verify that mechanisms are defined (may be automated or manual) for synchronizing the time and date stamps of the access, intrusion-detection, and monitoring (camera) systems to ensure accuracy of logs.	Documented procedures reviewed:	<Report Findings Here>	
	6G-3.7.b Examine system configurations for access, intrusion-detection, and monitoring (camera) systems to verify that time and date stamps are synchronized.		
Describe how the observed system configurations for access, intrusion-detection, and monitoring (camera) systems verified that time and date stamps are synchronized:			<Report Findings Here>
6G-3.7.c Examine a sample of logs from the access, intrusion-detection, and monitoring (camera) systems to verify log time and date stamps are synchronized.	Sample of logs from the access, intrusion-detection, and monitoring (camera) systems reviewed:		<Report Findings Here>
	6G-3.7.1 If a manual synchronization process is used, synchronization must occur at least quarterly; and documentation of the synchronization must be retained for at least a one-year period.		
6G-3.7.1.a If a manual synchronization process is implemented, interview responsible personnel and examine records of synchronization to verify the mechanism is performed at least quarterly.	Responsible personnel interviewed:	<Report Findings Here>	
	Records of synchronization examined:	<Report Findings Here>	
6G-4.7.1.b Examine records of the synchronization process to verify that documentation is retained for at least one year.	Records of synchronization examined:	<Report Findings Here>	

Domain 6: Normative Annex B, Key-Injection Facilities – Summary of Findings

Domain 6: P2PE Validation Requirements	Summary of Findings (check one)		
	In Place	N/A	Not in Place
6A Account data is processed using equipment and methodologies that ensure they are kept secure.			
6A-1 Account data is processed in equipment that conforms to requirements for secure cryptographic devices (SCDs). Account data never appears in the clear outside of an SCD.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6B Cryptographic keys used for account-data encryption/decryption and related key management are created using processes that ensure it is not possible to predict any key or determine that certain keys are more probable than other keys.			
6B-1 All keys and key components are generated using an approved random or pseudo-random process.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6B-2 Compromise of the key generation process must not be possible without collusion between at least two trusted individuals.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6B-3 Documented procedures must exist and must be demonstrably in use for all key-generation processing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6C Keys are conveyed or transmitted in a secure manner.			
6C-1 Secret or private keys shall be transferred by: a) Physically forwarding the key as at least two separate key shares or full-length components (hard copy, smart card, SCD) using different communication channels, or b) Transmitting the key in ciphertext form. Public keys must be conveyed in a manner that protects their integrity and authenticity.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6C-2 During its transmission, conveyance, or movement between any two organizational entities, any single unencrypted secret or private key component must at all times be protected. Sending and receiving entities are equally responsible for the physical protection of the materials involved.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6C-3 All key-encryption keys used to transmit or convey other cryptographic keys must be (at least) as strong as any key transmitted or conveyed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6C-4 Documented procedures must exist and must be demonstrably in use for all key transmission and conveyance processing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Domain 6: P2PE Validation Requirements	Summary of Findings (check one)		
	In Place	N/A	Not in Place
6D Key loading is handled in a secure manner.			
6D-1 <i>Secret and private keys must be input into hardware (host) security modules (HSMs) and Point of Interaction (POI) devices in a secure manner.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a) <i>Unencrypted secret or private keys must be entered into cryptographic devices using the principles of dual control and split knowledge.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) <i>Key-establishment techniques using public-key cryptography must be implemented securely.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6D-2 <i>The mechanisms used to load secret and private keys—such as terminals, external PIN pads, key guns, or similar devices and methods—must be protected to prevent any type of monitoring that could result in the unauthorized disclosure of any component.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6D-3 <i>All hardware and access/authentication mechanisms (e.g., passwords) used for key loading or the signing of authenticated applications (e.g., for “whitelists”) must be managed under dual control.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6D-4 <i>The loading of keys or key components must incorporate a validation mechanism such that the authenticity of the keys is ensured and it can be ascertained that they have not been tampered with, substituted, or compromised.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6D-5 <i>Documented procedures must exist and be demonstrably in use (including audit trails) for all key-loading activities.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6E Keys are used in a manner that prevents or detects their unauthorized usage.			
6E-2 <i>Procedures must exist to prevent or detect the unauthorized substitution (unauthorized key replacement and key misuse) of one key for another key or the operation of any cryptographic device without legitimate keys.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6E-3 <i>Cryptographic keys must be used only for their sole intended purpose and must never be shared between production and test systems.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6E-4 <i>All secret and private cryptographic keys ever present and used for any function (e.g., key-encipherment or account data-encipherment) by a POI device that processes account data must be unique (except by chance) to that device.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Domain 6: P2PE Validation Requirements	Summary of Findings (check one)		
	In Place	N/A	Not in Place
6F Keys are administered in a secure manner.			
6F-1 <i>Secret keys used for enciphering account-data-encryption keys or for account-data encryption, or private keys used in connection with remote key-distribution implementations, must never exist outside of SCDs, except when encrypted or securely stored and managed using the principles of dual control and split knowledge.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6F-2 <i>Procedures must exist and must be demonstrably in use to replace any known or suspected compromised key, its subsidiary keys (those keys encrypted with the compromised key), and keys derived from the compromised key, to a value not feasibly related to the original key.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6F-3 <i>Keys generated using reversible key-calculation methods, such as key variants, must only be used in SCDs that possess the original key.</i> <i>Keys generated using reversible key-calculation methods must not be used at different levels of the key hierarchy. For example, a variant of a key-encryption key used for key exchange must not be used as a working key or as a Master File Key for local storage.</i> <i>Keys generated with a non-reversible process, such as key derivation or transformation process with a base key using an encipherment process, are not subject to these requirements.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6F-4 <i>Secret and private keys and key components that are no longer used or have been replaced must be securely destroyed.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6F-5 <i>Access to secret and private cryptographic keys and key materials must be:</i> a) <i>Limited to a need-to-know basis so that the fewest number of key custodians are necessary to enable their effective use; and</i> b) <i>Protected such that no other person (not similarly entrusted with that component) can observe or otherwise contain the component.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6F-6 <i>Logs must be kept for any time that keys, key components or related materials are removed from storage or loaded to an SCD.</i> <i>Key-injection facilities must maintain logs for the key management of all keys and keying material used in all key-loading sessions. These include keys and materials removed from safes and used in the loading process.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6F-7 <i>Backups of secret and private keys must exist only for the purpose of reinstating keys that are accidentally destroyed or are otherwise inaccessible. The backups must exist only in one if the allowed storage forms for that key.</i> Note: <i>It is not a requirement to have backup copies of key components or keys.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6F-8 <i>Documented procedures must exist and must be demonstrably in use for all key-administration operations.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Domain 6: P2PE Validation Requirements	Summary of Findings (check one)		
	In Place	N/A	Not in Place
6G Equipment used to process account data and keys is managed in a secure manner.			
6G-1 <i>Equipment used to protect account data (e.g., POI devices and HSMs) must be placed into service only if there is assurance that the equipment has not been substituted or subjected to unauthorized modifications or tampering prior to the deployment of the device—both prior to and subsequent to the loading of cryptographic keys—and that precautions are taken to minimize the threat of compromise once deployed.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6G-2 <i>Physical and logical protections must exist for deployed POI devices.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6G-3 <i>Procedures must be in place and implemented to protect and SCDs—and endure the destruction of any cryptographic keys or key material within such devices—when removed from service, retired at the end of the deployment lifecycle, or returned for repair.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6G-4 <i>Any SCD capable of encrypting a key and producing cryptograms (i.e., and HSM or key-injection/loading device) of that key, or signing applications to be loaded onto a POI device, must be protected against unauthorized use to encrypt known keys or known key components. This protection takes the form of one or more of the following:</i> a) <i>Dual access controls required to enable the key-encryption function</i> b) <i>Physical protection of the equipment (e.g., locked access to it) under dual control</i> c) <i>Restriction of logical access to the equipment</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6G-5 <i>Documented procedures must exist and be demonstrably in use to ensure the security and integrity of account-data processing equipment (e.g., POI devices and HSMs) placed into service, initialized, deployed, used, and decommissioned.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6I Component providers ONLY: report status to solution providers.			
6I-1 <i>For component providers of key-injection services: maintain and monitor critical P2PE controls and provide reporting to the responsible solution provider.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Table 6B.1 – List of keys (by type) loaded onto POI devices via key-injection		
Key type/ description*:	Purpose/function of the key (including types of devices using key):	Identity of KIF:

* **Note:** Must include all keys from Table 6.1 identified as being distributed via KIF.

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
6A-1.2 Key-injection facilities must only inject keys into equipment that conforms to the requirements for SCDs. Key-injection platforms and systems shall include hardware devices for managing (e.g., generating and storing) the keys that conform to the requirements for SCDs.		
6A-1.2.a Examine documented procedures and system documentation to verify that key-injection platforms and systems used for managing cryptographic keys are required to conform to the requirements for SCDs.	Documented procedures reviewed:	<Report Findings Here>
	System documentation reviewed:	<Report Findings Here>
6A-1.2.b Examine key-injection platforms and systems used for managing cryptographic keys to verify they conform to the requirements for SCDs.	Describe how the key-injection platforms and systems used for managing cryptographic keys examined verified they conform to the requirements for SCDs:	
	<Report Findings Here>	
6A-1.3 Ensure that all hardware security modules (HSMs) are either: <ul style="list-style-type: none"> • FIPS140-2 Level 3 or higher certified, or • PCI approved. 		
6A-1.3.a For all HSM brands/models used, examine approval documentation (e.g., FIPS certification or PTS approval) and review the list of approved devices to verify that all HSMs are either: <ul style="list-style-type: none"> • Listed on the NIST Cryptographic Module Validation Program (CMVP) list, with a valid listing number, and approved to FIPS 140-2 Level 3, or higher. Refer http://csrc.nist.gov. • Listed on the PCI SSC website, with a valid SSC listing number, as Approved PCI PTS Devices under the approval class “HSM.” Refer to https://www.pcisecuritystandards.org. 	Approval documentation examined:	<Report Findings Here>
	Documented procedures reviewed:	<Report Findings Here>

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures		Reporting Instructions and Assessor's Findings	
6A-1.3.b Examine documented procedures and interview personnel to verify that all decryption operations are performed only by the FIPS-approved and/or PTS-approved HSMs identified above.		Personnel interviewed:	<Report Findings Here>
6A-1.4 The approval listing must match the deployed devices in the following characteristics: <ul style="list-style-type: none"> • Vendor name • Model name and number • Hardware version number • Firmware version number • The PCI PTS HSM or FIPS 140 version with which the model complies • The PCI PTS or FIPS 140 Approval Number • For PCI-approved HSMs, any applications, including application version number, resident within the device which were included in the PTS assessment 			
6A-1.4.a For all PCI-approved HSMs used, examine HSM devices and review the PCI SSC list of Approved PCI PTS Devices to verify that all of the following device characteristics match the PCI PTS listing for each HSM: <ul style="list-style-type: none"> • Vendor name • Model name/number • Hardware version number • Firmware version number • The PCI PTS HSM or FIPS 140 version with which the model complies • The PCI PTS or FIPS 140 Approval Number • Any applications, including application version number, resident within the device which were included in the PTS assessment 		For each PCI-approved HSM used, describe how the observed HSM device configurations verified that all of the device characteristics at 6A-1.4.a match the PTS listing:	<Report Findings Here>
6A-1.4.b For all FIPS-approved HSMs used, examine HSM devices and review the NIST Cryptographic Module Validation Program (CMVP) list to verify that all of the following device characteristics match the FIPS140-2 Level 3 (or higher) approval listing for each HSM: <ul style="list-style-type: none"> • Vendor name • Model name/number • Hardware version number • Firmware version number • The PCI PTS HSM or FIPS 140 version with which the model complies • The PCI PTS or FIPS 140 Approval Number 		For each FIPS-approved HSM used, describe how the observed HSM device configurations verified that all of the device characteristics at 6A-1.4.b match the FIPS140-2 Level 3 (or higher) approval listing:	<Report Findings Here>
6A-1.5 The KIF platform provider maintains documentation detailing the distributed KIF architecture and key-management flows. The platform provider must: <ul style="list-style-type: none"> • Maintain current documentation that describes or illustrates the architecture of the KIF, including all distributed KIF functionality. • Maintain documentation detailing the flow of keys from the key generation, through the distributed functionality to the destination device. The documentation should indicate how personnel interaction and inventory management is integrated into the flow. 			
		Relevant personnel interviewed:	<Report Findings Here>

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6A-1.5.a Interview relevant personnel and review documentation to verify that procedures exist for maintaining documentation that describes and/or illustrates the architecture of the KIF.	Documented procedures reviewed:	<Report Findings Here>
6A-1.5.b Interview relevant personnel and review documentation that describes and/or illustrates the architecture of the KIF to verify that all KIF components, key-management flows, and personnel interaction with key-management flows are identified and documented.	Relevant personnel interviewed:	<Report Findings Here>
	Documented procedures reviewed:	<Report Findings Here>
6A-1.5.c Examine the key-management flows and interview personnel to verify: <ul style="list-style-type: none"> Documentation shows all key-management flows across functions and networks from the point the key is generated through to the point the key is injected into the POI. Documentation is kept current and updated as needed upon changes to the KIF architecture 	Personnel interviewed:	<Report Findings Here>
	Documented key-management flows reviewed:	<Report Findings Here>
6B-1.1 Keys must be generated so that it is not feasible to determine that certain keys are more probable than other keys from the set of all possible keys. Cryptographic keys or key components must be generated by one of the following: <ul style="list-style-type: none"> An approved key-generation function of a PCI-approved HSM or POI An approved key-generation function of a FIPS 140-2 Level 3 (or higher) HSM An approved random number generator that has been certified by an independent laboratory to comply with NIST SP 800-22 Note: Random number generation is critical to the security and integrity of all cryptographic systems. All cryptographic key generation relies upon good quality, randomly generated values.		
6B-1.1.a Examine key-management policy document and to verify that it requires that all devices used to generate cryptographic keys meet one of the following <ul style="list-style-type: none"> An approved key-generation function of a PCI-approved HSM An approved key-generation function of a FIPS 140-2 Level 3 (or higher) HSM or An approved random number generator that has been certified by an independent qualified laboratory according to NIST SP 800-22. 	Documented key management policies and procedures reviewed:	<Report Findings Here>
6B-1.1.b Examine certification letters or technical documentation to verify that all devices used to generate cryptographic keys or key components meet one of the following <ul style="list-style-type: none"> An approved key-generation function of a PCI-approved HSM An approved key-generation function of a FIPS 140-2 Level 3 (or higher) HSM or An approved random number generator that has been certified by an independent qualified laboratory according to NIST SP 800-22 	Certification letters/technical documentation reviewed:	<Report Findings Here>
6B-1.1.c Verify devices used for key generation are those as noted above, including validation of the firmware used.	Describe how the reviewed devices used for key generation verified that devices are as noted above, including validation of the firmware:	

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting		
Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
	<Report Findings Here>	
6B-2.1 Implement security controls, including dual control and tamper protection to prevent the unauthorized disclosure of keys/key components.		
6B-2.1 Perform the following:		
6B-2.1.1 Any clear-text output of the key-generation process must be overseen by at least two authorized individuals who ensure there is no unauthorized mechanism that might disclose a clear-text key or key component as it is transferred between the key-generation SCD and the device or medium receiving the key or key component.		
6B-2.1.1.a Examine documented procedures to verify the following: <ul style="list-style-type: none"> Any clear-text output of the key-generation process is overseen by only the assigned key custodian(s) for that component/share and is limited to those individual components and not the entire key. There is no unauthorized mechanism that might disclose a clear-text key or key component between the key-generation device and the device or medium receiving the key or key component. 	Documented procedures reviewed:	<Report Findings Here>
6B-2.1.1.b Observe key-generation processes and interview responsible personnel to verify: <ul style="list-style-type: none"> Any clear-text output of the key-generation process is overseen by only the assigned key custodian(s) for that component/share and is limited to those individual components and not the entire key. There is no mechanism including connectivity that might disclose a clear-text key or key component between the key-generation device and the device or medium receiving the key or key component. 	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the key generation processes observed verified that any clear-text output of the key-generation process is overseen by only the assigned key custodian(s) for that component/share and is limited to those individual components and not the entire key:	
	<Report Findings Here>	
	Describe how the key generation processes observed verified that there is no mechanism including connectivity that might disclose a clear-text key or key component between the key-generation device and the device or medium receiving the key or key component:	
		<Report Findings Here>
6B-2.1.2 There must be no point in the process where a single individual has the ability to determine, obtain, or ascertain any part of a clear-text key or all the components for a key. Note: Full-length key components or key shares derived using a recognized key-splitting algorithm are not considered key parts and do not provide any information regarding the actual cryptographic key.		
6B-2.1.2.a Observe the process from end to end to verify there is no point in the process where a single person has the ability to determine, obtain, or ascertain any part of a clear-text key or all the components for a key.	Describe how the end-to-end process observed verified that there is no point in the process where a single person has the ability to determine, obtain, or ascertain any part of a clear-text key or all the components for a key:	
	<Report Findings Here>	

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures		Reporting Instructions and Assessor's Findings	
6B-2.1.2.b Examine key-generation logs to verify that at least two individuals performed the key-generation processes.	Key-generation logs reviewed:	<Report Findings Here>	
6B-2.1.3 Devices used for generation of clear-text key components that are output in the clear must be powered off when not in use. Logically partitioned devices used concurrently for other processes—e.g., providing services simultaneously to host systems, such as for transaction processing—must have key-generation capabilities disabled when not in use and other activities are continuing.			
6B-2.1.3 Examine documented procedures for all key-generation methods. Verify procedures require that: <ul style="list-style-type: none"> • Key-generation devices that generate clear-text key components be powered off when not in use; or • If logically partitioned for concurrent use in other processes, the key-generation capabilities are disabled when not in use and other activities are continuing. 	Documented key-generation procedures reviewed:	<Report Findings Here>	
6B-2.1.4 Key-generation equipment used for generation of clear-text key components must not show any signs of tampering (e.g., unnecessary cables).			
6B-2.1.4.a Review documented procedures for all key-generation methods to verify they include inspections of the key-generation equipment for evidence of tampering, prior to use.	Documented key-generation procedures reviewed:	<Report Findings Here>	
6B-2.1.4.b Observe key-generation set-up processes for all key types to verify that key-generation equipment is inspected prior to use, to ensure equipment does not show any signs of tampering.	Describe how the key-generation set-up processes observed verified that key-generation equipment is inspected prior to use to ensure equipment does not show any signs of tampering: <Report Findings Here>		
6B-2.1.5 Physical security controls must be used to prevent unauthorized personnel from accessing the key-generation area. It must not be feasible to observe the key-component/key-generation process whereby clear-text keying material is observable either directly or via camera monitoring.			
6B-2.1.5.a Examine documentation to verify that physical security controls are defined to ensure the key component/key-generation process cannot be observed or accessed by unauthorized personnel.	Documentation reviewed:	<Report Findings Here>	
6B-2.1.5.b Observe the physical security controls to verify that key-component/key-generation process cannot be observed or accessed by unauthorized personnel.	Describe how the physical security controls observed verified that key-component/key-generation process cannot be observed or accessed by unauthorized personnel: <Report Findings Here>		

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6B-2.2 Multi-use/purpose computing systems shall not be used for key generation where any clear-text secret or private key or component thereof appears in unprotected memory.</p> <p><i>For example, it is not permitted for the cryptographic key to be passed through the memory of a computer unless it has been specifically tasked for the sole purpose of key loading. Computers that have been specifically purposed and used solely for key loading are permitted for use if all other requirements can be met, including those of 6B-1 and the controls defined in Requirements at 6D-2 of this Annex B.</i></p> <p><i>Additionally, this requirement excludes from its scope computers used only for administration of SCDs, or key-generation devices where they have no ability to access clear-text cryptographic keys or components.</i></p> <p><i>Single-purpose computers with an installed SCD where clear keying material is injected directly from a secure port on the SCD to the target (e.g., a POI device) meet this requirement. Where the components pass through unprotected memory of the PC, it must meet 6D-2 of this Annex B.</i></p> <p>Note: See 6D-2.</p>		
<p>6B-2.2.a Examine documented procedures to verify that multi-purpose computing systems are not used for key generation where any clear-text secret or private key or component thereof appears in unprotected memory.</p>	Documented procedures reviewed:	<Report Findings Here>
<p>6B-2.2.b Observe generation process and review vendor documentation for each type of key to verify that multi-purpose computing systems are not used for key generation where any clear-text secret or private key or component thereof appears in unprotected memory.</p>	Vendor documentation reviewed for each type of key:	<Report Findings Here>
	Describe how the generation process observed for each type of key verified that multi-purpose computing systems are not used for key generation where any clear-text secret or private key or component thereof appears in unprotected memory:	
	<Report Findings Here>	
<p>6B-2.2.c Where single-purpose computers with an installed SCD are used, verify that either:</p> <ul style="list-style-type: none"> • Clear keying material is injected directly from a secure port on the SCD to the target (e.g., a POI device) or • Where clear keying material passes through unprotected memory of the PC, the PC requirements of 6D-2 of this Annex B are met. 	Describe how the single-purpose computers with an installed SCD verified that either:	<ul style="list-style-type: none"> • Clear keying material is injected directly from a secure port on the SCD to the target (e.g., a POI device) or • Where clear keying material passes through unprotected memory of the PC, the PC requirements of 6D-2 of this Annex B are met.
	<Report Findings Here>	
<p>6B-2.3 Printed key components must be printed within blind mailers or sealed immediately after printing to ensure that:</p> <ul style="list-style-type: none"> • Only approved key custodians can observe their own key component. • Tampering can be visually detected. <p>Printers used for this purpose must not be used for other purposes.</p>		
<p>6B-2.3.a Examine documented procedures for printed key components and verify that they require printed key components to be printed within blind mailers or sealed immediately after printing such that:</p> <ul style="list-style-type: none"> • Only approved key custodians can observe their own key component. • Tampering can be visually detected. <p>Printers used for this purpose are not used for other purposes.</p>	Documented procedures for printed key components reviewed:	<Report Findings Here>

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
6B-2.3.b Observe processes for printing key components to verify that key components are printed within blind mailers or sealed immediately after printing, such that no one but the authorized custodian ever has physical access to the output.	Describe how processes observed for printing key components verified that key components are printed within blind mailers or sealed immediately after printing, such that no one but the authorized custodian ever has physical access to the output:	
	<Report Findings Here>	
6B-2.3.c Observe blind mailers or other sealed containers used for key components to verify that tampering can be visually detected.	Describe how the blind mailers or other sealed containers used for key components observed verified that tampering can be visually detected:	
	<Report Findings Here>	
6B-2.4 Any residue that may contain clear-text keys or components must be destroyed or securely deleted—depending on media—immediately after generation of that key, to prevent disclosure of a key or the disclosure of a key component to an unauthorized individual. <i>Examples of where such key residue may exist include (but are not limited to):</i> <ul style="list-style-type: none"> • <i>Printing material, including ribbons and paper waste</i> • <i>Memory storage of a key-loading device, after loading the key to a different device or system</i> • <i>Other types of displaying or recording</i> 		
6B-2.4.a Examine documented procedures to identify all locations where key residue may exist. Verify procedures are implemented to ensure the following: <ul style="list-style-type: none"> • Any residue that may contain clear-text keys or components is destroyed or securely deleted immediately after generation. • If a key is generated in a separate device before being exported into the end-use device, confirm that the key and all related critical security parameters (e.g., secret seeds) are deleted (zeroized) from the generation and/or injection device immediately after the transfer to the device that will use the key. 	Documented procedures reviewed:	<Report Findings Here>
6B-2.4.b Observe the destruction process of the identified key residue and verify the following: <ul style="list-style-type: none"> • Any residue that may contain clear-text keys or components is destroyed immediately after generation. • If a key is generated in a separate device before being exported into the end-use device, confirm that the key and all related critical security parameters (e.g., secret seeds) are deleted (zeroized) from the generation and/or injection device immediately after the transfer to the device that will use the key. 	Describe how the destruction process of the identified key residue observed verified that any residue that may contain clear-text keys or components is destroyed or securely deleted immediately after generation:	
	<Report Findings Here>	
	If a key is generated in a separate device before being exported into the end-use device, describe how the destruction process of the identified key residue observed verified that the key and all related critical security parameters are deleted from the generation and/or injection device immediately after the transfer to the device that will use the key:	
		<Report Findings Here>

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures		Reporting Instructions and Assessor’s Findings	
<p>6B-2.5 Asymmetric-key pairs must either be:</p> <ul style="list-style-type: none"> Generated by the device that will use the key pair; or If generated externally, the private key of the key pair and all related critical security parameters (e.g., secret seeds) must be deleted (zeroized) immediately after the transfer to the device that will use the key pair. 			
<p>6B-2.5.a Examine documented procedures for asymmetric-key generation to confirm that procedures are defined to ensure that asymmetric-key pairs are either:</p> <ul style="list-style-type: none"> Generated by the device that will use the key pair, or If generated externally, the key pair and all related critical security parameters must be deleted (zeroized) immediately after the transfer to the device that will use the key pair. 	<p>Documented procedures for asymmetric-key generation reviewed:</p>	<p><Report Findings Here></p>	
<p>6B-2.5.b Observe key-generation processes to verify that asymmetric-key pairs are either:</p> <ul style="list-style-type: none"> Generated by the device that will use the key pair, or If generated externally, the key pair and all related critical security parameters are deleted (e.g., zeroized) immediately after the transfer to the device that will use the key pair. 	<p>Describe how the key-generation processes observed verified that asymmetric-key pairs are either:</p> <ul style="list-style-type: none"> Generated by the device that will use the key pair, or If generated externally, the key pair and all related critical security parameters are deleted immediately after the transfer to the device that will use the key pair. 		<p><Report Findings Here></p>
<p>6B-2.6 Policy and procedures must exist to ensure that clear-text private or secret keys or their components are prohibited from being transmitted across insecure channels. These include but are not limited to:</p> <ul style="list-style-type: none"> Dictating verbally keys or components Recording key or component values on voicemail Faxing, e-mailing, or otherwise conveying clear-text secret or private keys or components Conveying clear-text private or secret key components without containing them within tamper-evident, authenticable packaging Writing key or component values into startup instructions Affixing (e.g., taping) key or component values to or inside devices Writing key or component values in procedure manuals 			

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures		Reporting Instructions and Assessor's Findings	
6B-2.6.a Examine documented policy and procedures to verify that clear-text private or secret keys or their components are prohibited from being transmitted across insecure channels, including but not limited to: <ul style="list-style-type: none"> Dictating verbally keys or components Recording key or component values on voicemail Faxing, e-mailing, or otherwise conveying clear-text keys or components Conveying clear-text private or secret key components without containing them within tamper-evident, authenticable packaging Writing key or component values into startup instructions Affixing (e.g., taping) key or component values to or inside devices Writing key or component values in procedure manual 	Documented policy and procedures reviewed:	<Report Findings Here>	
		6B-2.6.b From observation of key-management processes verify that key components are not transmitted across insecure channels, including but not limited to: <ul style="list-style-type: none"> Dictating verbally keys or components Recording key or component values on voicemail Faxing, e-mailing, or otherwise conveying clear-text keys or components Conveying clear-text private or secret key components without containing them within tamper-evident, authenticable packaging Writing key or component values into startup instructions Affixing (e.g., taping) key or component values to or inside devices Writing key or component values in procedure manual 	Describe how the key-management processes observed verified that key components are not transmitted across insecure channels, including but not limited to: <ul style="list-style-type: none"> Dictating verbally keys or components Recording key or component values on voicemail Faxing, e-mailing, or otherwise conveying clear-text keys or components Conveying clear-text private or secret key components without containing them within tamper-evident, authenticable packaging Writing key or component values into startup instructions Affixing (e.g., taping) key or component values to or inside devices Writing key or component values in procedure manual
6B-3.1 Written key-creation procedures must exist, and all affected parties (key custodians, supervisory staff, technical management, etc.) must be aware of those procedures. All key-creation events performed by a key-injection facility must be documented. Procedures for creating all keys must be documented.			
6B-3.1.a Examine documented key-generation procedures to confirm that they include all aspects of key-generation operations.	Documented key-generation procedures reviewed:	<Report Findings Here>	
6B-3.1.b Interview those responsible for the key-generation processes (including key custodians, supervisory staff, technical management, etc.) to verify that the documented procedures are known and understood by all affected parties.	Responsible personnel interviewed:	<Report Findings Here>	
6B-3.1.c Observe key-generation ceremonies whether actual or for demonstration purposes, and verify that the documented procedures are demonstrably in use.	Describe how the observation of actual or demonstrative key-generation ceremonies verified that the documented procedures are demonstrably in use:	<Report Findings Here>	
		<Report Findings Here>	
6B-3.2 Logs must exist for the generation of higher-level keys such as KEKs exchanged with other organizations and MFKs and BDKeys.			

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6B-3.2.a Examine documented key-generation procedures to verify that all key-generation events for higher-level keys (e.g., KEKs shared with other organizations or otherwise manually loaded as components and MFKs and BDKs) are logged.	Documented key-generation procedures reviewed:	<Report Findings Here>
6B-3.2.b Observe demonstrations for all types of key-generation events to verify that all key-generation events are logged.	Describe how the demonstrations for all types of key-generation events observed verified that all key-generation events are logged:	
	<Report Findings Here>	
6B-3.2.c Examine logs of key generation to verify that exchanges of higher-level keys with other organizations have been recorded.	Key generation logs examined:	<Report Findings Here>
<p>6C-1.1 Keys must be transferred either encrypted or within an SCD. If clear text outside of an SCD, keys must be transferred as two or more key shares or full-length components using different communication channels, or within an SCD. Clear-text key components may be transferred in SCDs or using tamper-evident, authenticable packaging.</p> <ul style="list-style-type: none"> Where key components are transmitted in clear-text using pre-numbered tamper-evident, authenticable mailers: <ul style="list-style-type: none"> Components/shares must be conveyed using at least two separate communication channels, such as different courier services. Components/shares sufficient to form the key must not be conveyed using the same communication channel. Ensure that details of the serial number of the package are conveyed transmitted separately from the package itself. Ensure that documented procedures exist and are followed to require that the serial numbers be verified prior to the usage of the keying material. Where SCDs are used to convey components, the mechanisms or data (e.g., PIN) to obtain the key component from the SCD must be conveyed using a separate communication channel from the SCD, or it must be conveyed in the same manner as a paper component. SCDs must be inspected for signs of tampering. Where an SCD (HSM or KLD) is conveyed with pre-loaded secret and/or private keys, the SCD must require dual-control mechanisms to become operational. Those mechanisms must not be conveyed using the same communication channel as the SCD. SCDs must be inspected for signs of tampering. <p><i>Where an SCD (HSM or KLD) is conveyed with pre-loaded secret and/or private keys, the SCD must require dual-control mechanisms to become operational. Those mechanisms must not be conveyed using the same communication channel as the SCD. SCDs must be inspected for signs of tampering.</i></p> <p>Note: Components of encryption keys must be transferred using different communication channels, such as different courier services. It is not sufficient to send key components for a specific key on different days using the same communication channel.</p>		
6C-1.1.a Determine whether keys are transmitted encrypted, or as clear-text components, or within an SCD.	Identify the P2PE Assessor who determined whether keys are transmitted encrypted, or as clear-text components, or within an SCD:	<Report Findings Here>
6C-1.1.b If key components are ever transmitted in clear-text using pre-numbered tamper-evident mailers, perform the following: <ul style="list-style-type: none"> Examine documented procedures to verify they define how details of the serial number are transmitted separately from the package itself. Observe the method used to transport clear-text key components using tamper-evident mailers and interview responsible personnel to verify that 	Documented procedures reviewed:	<Report Findings Here>
	Records of key conveyances examined:	<Report Findings Here>
	Responsible personnel interviewed:	<Report Findings Here>

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>details of the serial number of the package are transmitted separately from the package itself.</p> <ul style="list-style-type: none"> Examine documented procedures to verify that cryptographic-key components are transferred using different communications channels. Examine records of key conveyances and interview responsible personnel to verify that cryptographic key components are transferred using different communications channels. Examine documented procedures to verify that serial numbers are verified prior to the usage of the keying material. 	<p>Describe how the observed method to transport clear-text key components using tamper-evident mailers verified that details of the serial number of the package are transmitted separately from the package itself:</p> <p><Report Findings Here></p>	
<p>6C-1.1.c Where SCDs are used to convey components, perform the following:</p> <ul style="list-style-type: none"> Examine documented procedures to verify that the mechanisms to obtain the keying material are conveyed using separate communication channels. Examine documented procedures to verify that the SCD is inspected to ensure that there are not any signs of tampering. Examine records of key transfers and interview responsible personnel to verify that the mechanisms to obtain the keying material are conveyed using separate communication channels. 	Documented procedures reviewed:	<Report Findings Here>
	Records of key conveyances examined:	<Report Findings Here>
	Responsible personnel interviewed:	<Report Findings Here>
<p>6C-1.1.d Where SCDs are conveyed with pre-loaded secret and/or private keys, perform the following:</p> <ul style="list-style-type: none"> Examine documented procedures to verify that the SCD requires dual-control mechanisms to become operational. Examine documented procedures to verify that the SCD is inspected to ensure that there are not any signs of tampering. Examine records of key transfers and interview responsible personnel to verify that the mechanisms make the SCD operational are conveyed using separate communication channels. 	Documented procedures reviewed:	<Report Findings Here>
	Records of key conveyances examined:	<Report Findings Here>
	Responsible personnel interviewed:	<Report Findings Here>
<p>6C-1.2 A person with access to one component or share of a secret or private key, or to the media conveying this value, must not have access to other components or shares of this key or to any other medium containing other components or shares sufficient to form the necessary threshold to derive the key. <i>E.g., in an m-of-n scheme (which must use a recognized secret-sharing scheme such as Shamir), such that any three key components or shares (i.e., m = 3) can be used to derive the key, no single individual can have access to more than two components/shares.</i></p>		

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Requirements and Testing Procedures		Reporting Instructions and Assessor’s Findings	
<p>6C-1.2.a Examine documented procedures to verify they include controls to ensure that no single person can ever have access to components or shares of this key or to any other medium containing other components or shares of this key that are sufficient to form the necessary threshold to derive the key. . Verify procedures include:</p> <ul style="list-style-type: none"> Any person with access to one component/share of a key must not have access to other components/shares of this key, or to any other medium conveying any other components or shares sufficient to form the necessary threshold to derive the key. Any person with access to the media conveying a component/share of a key must not have access to other components/shares of this key, or to any other medium conveying any other component of this key that is sufficient to form the necessary threshold to derive the key. 	Documented procedures reviewed:	<Report Findings Here>	
	<p>6C-1.2.b Observe key-transfer processes and interview personnel to verify that controls are implemented to ensure that no single person can ever have access to components or shares of this key or to any other medium containing other components or shares of this key that are sufficient to form the necessary threshold to derive the key. Verify the implemented controls ensure the following:</p> <ul style="list-style-type: none"> An individual with access to a key component or key share does not have access to other components/shares of this key or to any other medium conveying other components or shares of this key that are sufficient to form the necessary threshold to derive the key. Any person with access to the media conveying a key component or key share must not have access to other components/shares of this key or to any other medium conveying any other components or shares of this key that are sufficient to form the necessary threshold to derive the key. 	Personnel interviewed:	<Report Findings Here>
Describe how the observed key-transfer processes verified that:			
<ul style="list-style-type: none"> An individual with access to a key component or key share does not have access to other components/shares of this key or to any other medium conveying other components or shares of this key that are sufficient to form the necessary threshold to derive the key. Any person with access to the media conveying a key component or key share must not have access to other components/shares of this key or to any other medium conveying any other components or shares of this key that are sufficient to form the necessary threshold to derive the key. 			
<p>6C-1.3 E-mail shall not be used for the conveyance of secret or private keys or their components, even if encrypted, unless the key (or component) has already been encrypted in accordance with these requirements—i.e., in an SCD. This is due to the existence of these key values in unprotected memory just prior to encryption or subsequent to decryption. In addition, corporate e-mail systems allow the recovery by support staff of the clear-text of any encrypted text or files conveyed through those systems.</p> <p>Other similar mechanisms, such as SMS, fax, or telephone shall not be used to convey clear-text key values.</p>			
<p>6C-1.3 Validate through interviews, observation, and logs that e-mail, SMS, fax, or telephone or similar communication is not used as means to convey secret or private keys or key components.</p>	Personnel interviewed:	<Report Findings Here>	
	Logs reviewed:	<Report Findings Here>	
	Describe the observations that confirmed that e-mail, SMS, fax, telephone, or similar communication is not used as means to convey secret or private keys or key components:		
	<Report Findings Here>		

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6C-1.4 Public keys must be conveyed in a manner that protects their integrity and authenticity. Examples of acceptable methods include:</p> <ul style="list-style-type: none"> • Use of public-key certificates as defined in Annex A that are created by a trusted CA that meets the requirements of Annex A. • A hash of the public key sent by a separate channel (e.g., mail) • Using a MAC (message authentication code) created using the algorithm defined in ISO 16609 • Be within an SCD <p>Note: <i>Self-signed certificates must not be used as the sole method of authentication.</i></p>	<p><Report Findings Here></p>	
<p>6C-1.4 For all methods used to convey public keys, perform the following:</p> <ul style="list-style-type: none"> • Examine documented procedures for conveying public keys to verify that methods are defined to convey public keys in a manner that protects their integrity and authenticity such as: <ul style="list-style-type: none"> – Use of public-key certificates created by a trusted CA that meets the requirements of Annex A – A hash of the public key sent by a separate channel (e.g., mail) – Using a MAC (message authentication code) created using the algorithm defined in ISO 16609 – Be within an SCD • Observe the process for conveying public keys and interview responsible personnel to verify that self-signed certificates must not be used as the sole method of authentication. • Observe the process for conveying public keys and interview responsible personnel to verify that the implemented method ensures public keys are conveyed in a manner that protects their integrity and authenticity. 	<p>Documented procedures reviewed:</p>	<p><Report Findings Here></p>
	<p>Responsible personnel interviewed:</p>	<p><Report Findings Here></p>
	<p>Describe how the observed process for conveying public keys verified that all methods ensure public keys are conveyed in a manner that protects their integrity and authenticity:</p>	
	<p><Report Findings Here></p>	
<p>6C-2.1 Any single clear-text secret or private key component/share must at all times be either:</p> <ul style="list-style-type: none"> • Under the continuous supervision of a person with authorized access to this component, or • Locked in a security container (including tamper-evident, authenticable packaging) in such a way that unauthorized access to it would be detected, or • Contained within a physically secure SCD. <p>Note: <i>No single person shall be able to access or use all components or a quorum of shares of a single secret or private cryptographic key.</i></p>	<p><Report Findings Here></p>	
<p>6C-2.1.a Examine documented procedures for transmission, conveyance, or movement of keys between any two locations to verify that any single clear-text secret or private key component/share must at all times be either:</p> <ul style="list-style-type: none"> • Under the continuous supervision of a person with authorized access to this component, • Locked in a security container (including pre-numbered, tamper-evident, authenticable packaging) in such a way that it can be obtained only by a person with authorized access to it and unauthorized access to it would be detected, or • Contained within a physically secure SCD. 	<p>Documented procedures reviewed:</p>	<p><Report Findings Here></p>

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings		
<p>6C-2.1.b Observe key-management processes and interview responsible personnel to verify processes are implemented to ensure that any single clear-text secret or private key component/share is at all times either:</p> <ul style="list-style-type: none"> • Under the continuous supervision of a person with authorized access to this component, • Locked in a security container (including pre-numbered, tamper-evident, authenticable packaging) in such a way that it can be obtained only by a person with authorized access to it and unauthorized access to it would be detected, or • Contained within a physically secure SCD. 	Responsible personnel interviewed:	<Report Findings Here>	
	<p>Describe how the key-management processes observed verified that processes are implemented to ensure that any single clear-text secret or private key component/share is at all times either:</p> <ul style="list-style-type: none"> • Under the continuous supervision of a person with authorized access to this component • Locked in a security container (including pre-numbered tamper-evident, authenticable packaging) in such a way that it can be obtained only by a person with authorized access to it, unauthorized access to it would be detected, or • Contained within a physically secure SCD. 		
	<Report Findings Here>		
<p>6C-2.2 Packaging or mailers (i.e., pre-numbered tamper-evident packaging) containing clear-text key components are examined for evidence of tampering before being opened. Any sign of package tampering must result in the destruction and replacement of:</p> <ul style="list-style-type: none"> • The set of components • Any keys encrypted under this (combined) key 			
<p>6C-2.2.a Verify documented procedures include requirements for all packaging or mailers containing clear-text key components to be examined for evidence of tampering before being opened.</p>	Documented procedures reviewed:	<Report Findings Here>	
	<p>6C-2.2.b Interview responsible personnel and observe processes to verify that all packaging or mailers containing clear-text key components are examined for evidence of tampering before being opened.</p>	Responsible personnel interviewed:	<Report Findings Here>
		<p>Describe how the processes observed verified that all packaging or mailers containing clear-text key components are examined for evidence of tampering before being opened:</p>	
<Report Findings Here>			
<p>6C-2.2.c Verify documented procedures require that any sign of package tampering results in the destruction and replacement of both:</p> <ul style="list-style-type: none"> • The set of components • Any keys encrypted under this (combined) key 	Documented procedures reviewed:	<Report Findings Here>	

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures		Reporting Instructions and Assessor’s Findings	
6C-2.2.d Interview responsible personnel and observe processes to verify that, if a package shows signs of tampering, processes are implemented that result in the destruction and replacement of both: <ul style="list-style-type: none"> • The set of components • Any keys encrypted under this (combined) key 	Responsible personnel interviewed	<Report Findings Here>	
	Describe how the process observed verified that if a package shows signs of tampering, processes are implemented that result in the destruction and replacement of both: <ul style="list-style-type: none"> • The set of components • Any keys encrypted under this (combined) key 		
	<Report Findings Here>		
6C-2.3 Only the authorized key custodian (and designated backup(s)) shall have physical access to a key component prior to transmittal or upon receipt of a component.			
6C-2.3.a Verify that a list(s) of key custodians (and designated backup(s)) authorized to have physical access to key components prior to transmittal or upon receipt of a component is defined and documented.	Documentation reviewed:	<Report Findings Here>	
6C-2.3.b Observe implemented access controls and processes to verify that only those authorized key custodians (and designated backup(s)) have physical access to key components prior to transmittal or upon receipt.	Describe the implemented access controls and processes observed that verified that only those authorized key custodians (and designated backup(s)) have physical access to key components prior to transmittal or upon receipt:		
	<Report Findings Here>		
6C-2.3.c Examine physical access logs (e.g., to security containers for key components) to verify that only the authorized individual(s) have access to each component.	Physical access logs examined:	<Report Findings Here>	
6C-2.4 Mechanisms must exist to ensure that only authorized custodians: <ul style="list-style-type: none"> • Place key components into pre-numbered tamper-evident, authenticable packaging for transmittal. • Check tamper-evident packaging upon receipt for signs of tamper prior to opening the tamper-evident, authenticable packaging containing key components. • Check the serial number of the tamper-evident packing upon receipt of a component package. 			
6C-2.4.a Verify that a list(s) of key custodians authorized to perform the following activities is defined and documented: <ul style="list-style-type: none"> • Place the key component into pre-numbered tamper-evident packaging for transmittal. • Upon receipt, check the tamper-evident packaging for signs of tamper prior to opening the tamper-evident packaging containing the key component. • Check the serial number of the tamper-evident packing upon receipt of a component package. 	Documentation reviewed:	<Report Findings Here>	

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Requirements and Testing Procedures		Reporting Instructions and Assessor’s Findings	
<p>6C-2.4.b Observe implemented mechanisms and processes to verify that only the authorized key custodians can perform the following:</p> <ul style="list-style-type: none"> Place the key component into pre-numbered tamper-evident packaging for transmittal. Upon receipt, check the tamper-evident packaging for signs of tamper prior to opening the tamper-evident packaging containing the key component. Check the serial number of the tamper-evident packing upon receipt of a component package. 	<p>Describe how the implemented mechanisms and processes observed verified that only the authorized key custodians can perform the following:</p> <ul style="list-style-type: none"> Place the key component into pre-numbered tamper-evident packaging for transmittal. Upon receipt, check the tamper-evident packaging for signs of tamper prior to opening the tamper-evident packaging containing the key component. Check the serial number of the tamper-evident packaging upon receipt of a component package. 		
	<Report Findings Here>		
<p>6C-2.5 Pre-numbered, tamper-evident, authenticable bags shall be used for the conveyance of clear-text key components. Out-of-band mechanisms must be used to verify receipt of the appropriate bag numbers. Note: <i>Numbered courier bags are not sufficient for this purpose</i></p>			
<p>6C-2.5 Verify that pre-numbered, tamper-evident, authenticable bags are used for the conveyance of clear-text key components and perform the following:</p> <ul style="list-style-type: none"> Examine documented procedures to verify they define how details of the serial number are transmitted separately from the package itself. Observe the method used to transport clear-text key components using tamper-evident mailers, and interview responsible personnel to verify that details of the serial number of the package are transmitted separately from the package itself. 	Documented procedures reviewed:	<Report Findings Here>	
	Responsible personnel interviewed:	<Report Findings Here>	
	Describe how the observed method used to transport clear-text key components using tamper-evident mailers verified that details of the serial number of the package are transmitted separately from the package itself:		
	<Report Findings Here>		
<p>6C-3.1 All key-encryption keys used to encrypt for transmittal or conveyance of other cryptographic keys must be (at least) as strong as the key being sent, as delineated in Annex C except as noted below for RSA keys used for key transport.</p> <ul style="list-style-type: none"> DEA keys used for encrypting keys must be at least double-length keys (have bit strength of 80 bits) and use the TDEA in an encrypt, decrypt, encrypt mode of operation for key-encipherment. A double- or triple-length DEA key must not be encrypted with a DEA key of a lesser strength. TDEA keys shall not be used to protect AES keys. TDEA keys shall not be used to encrypt keys greater in strength than 112 bits. RSA keys encrypting keys greater in strength than 80 bits shall have bit strength at least 112 bits. 			
<p>6C-3.1.a Examine documented procedures to verify that all keys used to transmit or convey other cryptographic keys must be (at least) as strong as any key transmitted or conveyed, as delineated in Annex C.</p>	Documented procedures reviewed:	<Report Findings Here>	

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Requirements and Testing Procedures			Reporting Instructions and Assessor's Findings	
<p>6C-3.1.b Observe key-generation processes to verify that all keys used to transmit or convey other cryptographic keys are at least as strong as any key transmitted or conveyed, except as noted below for RSA keys used for key transport.</p> <ul style="list-style-type: none"> Interview appropriate personnel and examine documented procedures for the creation of these keys. Using the table in Annex C, validate the respective key sizes for DEA, RSA, Elliptic Curve, DSA, and Diffie Hellman algorithms where used for key encryption. Verify that: <ul style="list-style-type: none"> DEA keys used for encrypting keys must be at least double-length keys (have bit strength of 80 bits) and use the TDEA in an encrypt, decrypt, encrypt mode of operation for key-encipherment. A double- or triple-length DEA key must not be encrypted with a DEA key of lesser strength. TDEA keys are not used to protect AES keys. TDEA keys shall not be used to encrypt keys greater in strength than 112 bits. RSA keys encrypting keys greater in strength than 80 bits have bit strength at least 112 bits. 	Appropriate personnel interviewed:	<Report Findings Here>		
	Documented procedures reviewed:	<Report Findings Here>		
	Describe how the key-generation processes observed verified that all keys used to transmit or convey other cryptographic keys are at least as strong as any key transmitted or conveyed, as delineated in Annex C:		<Report Findings Here>	
	<Report Findings Here>			
<p>6C-3.1.c Examine system documentation and configuration files to validate the above, including HSM settings.</p>	System documentation reviewed:	<Report Findings Here>		
	Describe how the observed configuration files validated the above, including HSM settings:		<Report Findings Here>	
	<Report Findings Here>			
<p>6C-4.1 Written procedures must exist and be known to all affected parties.</p>				
<p>6C-4.1.a Verify documented procedures exist for all key transmission and conveyance processing.</p>	Documented procedures reviewed:	<Report Findings Here>		
<p>6C-4.1.b Interview responsible personnel to verify that the documented procedures are known and understood by all affected parties for key transmission and conveyance processing.</p>	Responsible personnel interviewed:	<Report Findings Here>		
<p>6C-4.2 Methods used for the conveyance or receipt of keys must be documented.</p>				
<p>6C-4.2 Verify documented procedures include all methods used for the conveyance or receipt of keys.</p>	Documented procedures reviewed:	<Report Findings Here>		

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6D-1.1 The loading of secret or private keys, when loaded from the individual key components, must be managed using the principles of dual control and split knowledge. <i>Note: Manual key loading may involve the use of media such as paper, smart cards, or other physical tokens.</i></p>		
<p>6D-1.1.a Review documented process to load each key type (MFK, TMK, PEK, etc.) from components to ensure dual control and split knowledge are required.</p>	Documented procedures reviewed:	<Report Findings Here>
<p>6D-1.1.b Interview appropriate personnel to determine the number of key components for each manually loaded key, and the methodology used to form the key.</p>	Appropriate personnel interviewed:	<Report Findings Here>
<p>6D-1.1.c Witness a structured walk-through/demonstration of various key-loading processes for all key types (MFKs, TMKs, PEKs. etc.). Verify the number and length of the key components to information provided through verbal discussion and written documentation.</p>	Describe how the structured walk-through/demonstration verified that the number and length of the key components is consistent with information provided through verbal discussion and written documentation:	
	<Report Findings Here>	
<p>6D-1.1.d Verify that the process includes the entry of individual key components by the designated key custodians.</p>	Describe how the structured walk-through/demonstration verified that the process includes the entry of individual key components by the designated key custodians:	
	<Report Findings Here>	
<p>6D-1.1.e Ensure key-loading devices can only be accessed and used under dual control.</p>	Describe how the structured walk-through/demonstration verified that key-loading devices can only be accessed and used under dual control:	
	<Report Findings Here>	
<p>6D-1.2 Procedures must be established that will prohibit any one person from having access to components sufficient to form an encryption key when components are removed from and returned to storage for key loading.</p>		
<p>6D-1.2 Examine logs of access to security containers for key components to verify that only the authorized custodian(s) have accessed. Compare the number on the current tamper-evident authenticable bag for each component to the last log entry for that component.</p>	Access logs examined:	<Report Findings Here>
<p>6D-1.3 The loading of clear-text cryptographic keys using a key-loading device requires dual control to authorize any key-loading session. It shall not be possible for a single person to use the key-loading device to load clear keys alone. Dual control must be implemented using one or more of, but not limited to, the following techniques:</p> <ul style="list-style-type: none"> • Two or more passwords of five characters or more (vendor default values must be changed), • Multiple cryptographic tokens (such as smartcards), or physical keys, • Physical access controls <p><i>Note that for devices that do not support two or more passwords, this may be achieved by splitting the single password used by the device into two halves, each half controlled by a separate authorized custodian.</i></p>		
<p>6D-1.3.a Examine documented procedures for loading of clear-text cryptographic keys, including public keys, to verify they require dual control to authorize any key-loading session.</p>	Documented procedures reviewed:	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
6D-1.3.b For all types of production SCDs, observe processes for loading clear-text cryptographic keys, including public keys, to verify that dual control is required to authorize any key-loading session. Verify that any passwords used are a minimum of five characters.	Describe how the observed processes for loading clear-text cryptographic keys for all types of production SCDs verified that dual control is required to authorize any key-loading sessions and that any passwords used are a minimum of five characters: <Report Findings Here>	
6D-1.3.c Examine documented records of key-loading processes to verify the presence of two authorized persons during each type of key-loading activity.	Documented records of key-loading processes reviewed:	<Report Findings Here>
6D-1.3.d Ensure that any default dual-control mechanisms (e.g., default passwords—usually printed in the vendor’s manual—in a key-loading device) have been disabled or changed.	Describe how default dual-control mechanisms were verified to have been disabled or changed: <Report Findings Here>	
6D-1.4 Key components for symmetric keys must be combined using a process such that no active bit of the key can be determined without knowledge of the remaining components—e.g., via XOR’ing of full-length components. <i>Note that concatenation of key components together to form the key is unacceptable; e.g., concatenating two 8-hexadecimal character halves to form a 16-hexadecimal secret key.</i> The resulting key must only exist within the SCD.		
6D-1.4.a Examine documented procedures for combining symmetric key components and observe processes to verify that key components are combined using a process such that no active bit of the key can be determined without knowledge of the remaining components.	Documented procedures reviewed:	<Report Findings Here>
6D-1.4.b Examine key-component lengths or device configuration settings to verify that key components used to create a key are the same length as the resultant key.	Describe how the key-component lengths or device configuration settings observed verified that key components used to create a key are the same length as the resultant key: <Report Findings Here>	
6D-1.5 Hardware security module (HSM) Master File Keys, including those generated internal to the HSM and never exported, must be at least double-length keys and use the TDEA (including parity bits) or AES using a key size of at least 128 bits.		
6D-1.5 Examine vendor documentation describing options for how the HSM MFK is created. Corroborate this via observation of processes, with information gathered during the interview process, and procedural documentation provided by the entity under review.	Vendor documentation reviewed:	<Report Findings Here>
	Identify the P2PE Assessor who corroborated how the HSM MFK is created:	<Report Findings Here>
6D-1.6 Any other SCD loaded with the same key components must combine all entered key components using the identical process.		

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6D-1.6 Through examination of documented procedures, interviews, and observation, confirm that any devices that are loaded with the same key components use the same mathematical process to derive the final key,	Documented procedures reviewed:	<Report Findings Here>
	Personnel interviewed:	<Report Findings Here>
	Describe how it was confirmed that any devices that are loaded with the same key components use the same mathematical process to derive the final key:	
	<Report Findings Here>	
6D-1.7 The initial terminal master key (TMK) must be loaded to the device using either asymmetric key-loading techniques or manual techniques—e.g., the device keypad, IC cards, key-loading device, etc. Subsequent loading of the terminal master key may use techniques described in this documents such as: <ul style="list-style-type: none"> Asymmetric techniques Manual techniques The existing TMK to encrypt the replacement TMK for download. Keys shall not be reloaded by any methodology in the event of a compromised device, and must be withdrawn from use.		
6D-1.7.a Examine documented procedures for the loading of TMKs to verify that they require asymmetric key-loading techniques or manual techniques for initial loading.	Documented procedures reviewed:	<Report Findings Here>
6D-1.7.b Examine documented procedures to verify that keys are prohibited from reloading or reuse wherever suspected of being compromised and are withdrawn from use.	Documented procedures reviewed:	<Report Findings Here>
6D-1.8 If key-establishment protocols using public-key cryptography are used to remotely distribute secret keys, these must meet the requirements detailed in Annex A of this document. For example: A public-key technique for the distribution of symmetric secret keys must: <ul style="list-style-type: none"> Use public and private key lengths that are in accordance with Annex C for the algorithm in question. Use key-generation techniques that meet the current ANSI and ISO standards for the algorithm in question. Provide for mutual device authentication for both the host and the POI device or host-to-host if applicable, including assurance to the host that the POI device actually has (or actually can) compute the session key and that no entity other than the POI device specifically identified can possibly compute the session key. 		
6D-1.8.a For techniques involving public key cryptography, examine documentation and develop a schematic to illustrate the process, including the size and sources of the parameters involved, and the mechanisms utilized for mutual device authentication for both the host and the POI.	Documented procedures reviewed:	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6D-1.8.b If key-establishment protocols using public-key cryptography are used to remotely distribute secret keys, verify that the remote key distribution requirements detailed in Annex A of this document are met, including:</p> <ul style="list-style-type: none"> • Use of public and private key lengths that are in accordance with Annex C for the algorithm in question. • Use of key-generation techniques that meet the current ANSI and ISO standards for the algorithm in question. • Providing for mutual device authentication for both the host and the POI device or host-to-host if applicable. 	Identify the P2PE Assessor who confirms that requirements detailed in Annex A of this document are met where key-establishment protocols using public-key cryptography are used to remotely distribute secret keys:	<Report Findings Here>
<p>6D-1.9 Key-injection facilities must implement dual control and split-knowledge controls for the loading of keys into devices (e.g., POIs and other SCDs). Note: Such controls may include but are not limited to:</p> <ul style="list-style-type: none"> • Physical dual access controls that electronically provide for restricted entry and egress from a room dedicated to key injection such that the badge-access system enforces the presence of at least two authorized individuals at all times in the room so no one person can singly access the key-loading equipment. Access is restricted to only appropriate personnel involved in the key-loading process • Logical dual control via multiple logins with unique user IDs to the key-injection platform application such that no one person can operate the application to singly inject cryptographic keys into devices • Key-injection platform applications that force the entry of multiple key components and the implementation of procedures that involve multiple key custodians who store and access key components under dual-control and split-knowledge mechanisms • Demonstrable procedures that prohibit key custodians from handing their components to any other individual for key entry 		
<p>6D-1.9.a Examine documented key-injection procedures to verify that the procedures define use of dual control and split knowledge controls for the loading of keys into devices.</p>	Documented key-injection procedures reviewed:	<Report Findings Here>
<p>6D-1.9.b Interview responsible personnel and observe key-loading processes and controls to verify that dual control and split-knowledge controls are in place for the loading of keys into devices.</p>	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the observed key-loading processes and controls verified that dual control and split-knowledge controls are in place for the loading of keys into devices: <Report Findings Here>	
<p>6D-1.9.c Examine records of key-loading processes and controls to verify that the loading of keys does not occur without dual control and split knowledge.</p>	Records of key-loading processes and controls reviewed:	<Report Findings Here>
<p>6D-2.1 Clear-text secret and private keys and key components must be transferred into an SCD only when it can be ensured that:</p> <ul style="list-style-type: none"> • Any cameras present in the environment must be positioned to ensure they cannot monitor the entering of clear-text key components. • There is not any mechanism at the interface between the conveyance medium and the SCD that might disclose the transferred keys. • The SCD must be inspected prior to use to ensure that it has not been subject to any prior tampering that could lead to the disclosure of clear-text keying materials. • SCDs must be inspected to detect evidence of monitoring and to ensure dual-control procedures are not circumvented during key loading. • An SCD must transfer a plaintext secret or private key only when at least two authorized individuals are uniquely identified by the device. 		

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>6D-2.1 Observe key-loading environments, processes, and mechanisms (e.g., terminals, PIN pads, key guns, etc.) used to transfer keys and key components. Perform the following:</p> <ul style="list-style-type: none"> • Ensure that any cameras that are present are positioned to ensure they cannot monitor the entering of clear-text key components. • Review documented procedures to determine that they require that keys and components are transferred into an SCD only after an inspection of the devices and mechanism; and verify they are followed by observing a demonstration that: <ul style="list-style-type: none"> – SCDs must be inspected to detect evidence of monitoring and to ensure dual-control procedures are not circumvented during key loading. – An SCD must transfer a plaintext secret or private key only when at least two authorized individuals are identified by the device. – There is not any mechanism (including cabling) at the interface between the conveyance medium and the SCD device that might disclose the transferred keys. – The SCD is inspected to ensure it has not been subject to any prior tampering that could lead to the disclosure of clear-text keying material. 	Documented procedures reviewed:	<Report Findings Here>
	Describe how the demonstration verified that:	<ul style="list-style-type: none"> • SCDs must be inspected to detect evidence of monitoring and to ensure dual-control procedures are not circumvented during key loading. • An SCD must transfer a plaintext secret or private key only when at least two authorized individuals are identified by the device. • There is not any mechanism (including cabling) at the interface between the conveyance medium and the SCD device that might disclose the transferred keys. • The SCD is inspected to ensure it has not been subject to any prior tampering that could lead to the disclosure of clear-text keying material.
<p>6D-2.2 Only SCDs shall be used in the loading of clear-text secret or private keys or their components outside of a secure key-loading facility, as delineated in this Annex. For example, computer keyboards shall never be used for the loading of clear-text secret or private keys or their components.</p>		
<p>6D-2.2 Verify that only SCDs are used in the loading of clear-text secret or private keys or their components, outside of a secure key-loading facility, as delineated in this Annex. For example, ATM keyboards shall never be used for the loading of clear-text secret or private keys or their components.</p>	Identify the P2PE Assessor who confirms that only SCDs are used in the loading of clear-text secret or private keys or their components outside of a secure key-loading facility, as delineated in this Annex:	<Report Findings Here>
<p>6D-2.3 The loading of secret or private key components from an electronic medium to a cryptographic device (and verification of the correct receipt of the component, if applicable) results in either of the following:</p> <ul style="list-style-type: none"> • The medium is placed into secure storage and managed under dual control (only if there is a possibility it will be required for future re-loading of the component into the cryptographic device); or • All traces of the component are erased or otherwise destroyed from the electronic medium. 		
<p>6D-2.3 Examine documented procedures for the loading of secret or private key components from an electronic medium to a cryptographic device. Verify that procedures define specific instructions to be followed as a result of key loading, including:</p> <ul style="list-style-type: none"> • Instructions for the medium to be placed into secure storage and managed under dual control (only if there is a possibility it will be required for future re-loading of the component into the cryptographic device); or • Instructions to erase or otherwise destroy all traces of the component from the electronic medium. 	Documented procedures reviewed:	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings
<p>6D-2.3 Observe key-loading processes to verify that the loading process results in one of the following:</p> <ul style="list-style-type: none"> • The medium used for key loading is placed into secure storage and managed under dual control (only if there is a possibility it will be required for future re-loading of the component into the cryptographic device); or • All traces of the component are erased or otherwise destroyed from the electronic medium. 	<p>Describe how the observed key-loading processes verified that the injection process results in one of the following:</p> <ul style="list-style-type: none"> • The medium used for key injection is placed into secure storage and managed under dual control (only if there is a possibility it will be required for future re-loading of the component into the cryptographic device); or • All traces of the component are erased or otherwise destroyed from the electronic medium. <p align="center"><Report Findings Here></p>
<p>6D-2.4 For secret or private keys transferred from the cryptographic hardware that generated the key to an electronic key-loading device:</p>	
<p>6D-2.4 Review documented procedures and observe processes for the use of key-loading devices. Perform the following:</p>	
<p>6D-2.4.1 The key-loading device must be a physically secure SCD, designed and implemented in such a way that any unauthorized disclosure of the key is prevented or detected.</p>	
<p>6D-2.4.1 Verify the key-loading device is a physically secure SCD designed and implemented in such a way that any unauthorized disclosure of the key is prevented or detected.</p>	<p>Documented procedures reviewed: <Report Findings Here></p>
	<p>Describe how the observed processes for the use of key-loading devices verified that the key-loading device is a physically secure SCD, designed and implemented in such a way that any unauthorized disclosure of the key is prevented or detected:</p>
	<p align="center"><Report Findings Here></p>
<p>6D-2.4.2 The key-loading device must be under the supervision of a person authorized by management, or stored in a secure container such that no unauthorized person can have access to it.</p>	
<p>6D-2.4.2 Verify the key-loading device is under the supervision of a person authorized by management, or stored in a secure container such that no unauthorized person can have access to it.</p>	<p>Documented procedures reviewed: <Report Findings Here></p>
	<p>Describe how the observed processes for the use of key-loading devices verified that the key-loading device is under the supervision of a person authorized by management, or stored in a secure container such that no unauthorized person can have access to it:</p>
	<p align="center"><Report Findings Here></p>
<p>6D-2.4.3 The key-loading device must be designed or controlled so that only authorized personnel under dual control can use and enable it to output a key into another SCD. Such personnel must ensure that a key-recording device is not inserted between the SCDs.</p>	

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6D-2.4.3.a Verify the key-loading device is designed or controlled so that only authorized personnel under dual control can use and enable it to output a key into another SCD.	Documented procedures reviewed:	<Report Findings Here>
	Describe how the observed processes for the use of key-loading devices verified that the key-loading device is designed or controlled so that only authorized personnel under dual control can use and enable it to output a key into another SCD:	
	<Report Findings Here>	
6D-2.4.3.b Verify that authorized personnel inspect the key-loading device prior to use to ensure that a key-recording device has not been inserted between the SCDs.	Documented procedures reviewed:	<Report Findings Here>
	Describe how the observed processes for the use of key-loading devices verified that authorized personnel inspect the key-loading device, prior to use to ensure that a key-recording device has not been inserted between the SCDs:	
	<Report Findings Here>	
6D-2.4.4 The key-loading device must not retain any information that might disclose the key that was installed in the device or a key that it has successfully transferred.		
6D-2.4.4 Verify the key-loading device does not retain any information that might disclose the key or a key that it has successfully transferred. For example, attempt to output the same value more than one time from the device or cause the device to display check values for its contents both before and after injection and compare.	Documented procedures reviewed:	<Report Findings Here>
	Describe how the observed processes for the use of key-loading devices verified that the key-loading device does not retain any information that might disclose the key that was installed in the device or a key that it has successfully transferred:	
	<Report Findings Here>	
6D-2.5 Any media (electronic or otherwise) containing secret or private key components used for loading cryptographic keys must be maintained in a secure storage location and accessible only to authorized custodian(s). When removed from the secure storage location, media or devices containing key components or used for the injection of clear-text cryptographic keys must be in the physical possession of only the designated component holder(s), and only for the minimum practical time necessary to complete the key-loading process. The media upon which a component resides must be physically safeguarded at all times when removed from secure storage. Key components that can be read/displayed (e.g., those printed on paper or stored on magnetic cards, PROMs, or smartcards) must be managed so they are never used in a manner that would result in the component being displayed in clear text to a non-custodian for that component.		
6D-2.5.a Interview personnel and observe media locations to verify that the media is maintained in a secure storage location accessible only to custodian(s) authorized to access the key components.	Personnel interviewed:	<Report Findings Here>
	Media locations observed:	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6D-2.5.b Examine documented procedures for removing media or devices containing key components—or that are otherwise used for the injection of cryptographic keys—from the secure storage location. Verify procedures include the following:</p> <ul style="list-style-type: none"> Requirement that media/devices are in the physical possession of only the designated component holder(s). The media/devices are removed from secure storage only for the minimum practical time necessary to complete the key-loading process. 	Documented procedures reviewed:	<Report Findings Here>
<p>6D-2.5.c Interview designated component holder(s) and examine key-management logs to verify that media or devices removed from secure storage are in the physical possession of only the designated component holder.</p>	Designated component holder(s) interviewed:	<Report Findings Here>
	Key-management logs examined:	<Report Findings Here>
<p>6D-2.5.d Interview key-injection personnel and examine logs for the removal of media/devices from secure storage to verify they are removed only for the minimum practical time necessary to complete the key-loading process.</p>	Key-injection personnel interviewed:	<Report Findings Here>
	Logs examined:	<Report Findings Here>
<p>6D-2.6 If the component is in human-readable form, it must be visible only to the designated component custodian and only for the duration of time required for this person to privately enter the key component into an SCD.</p>		
<p>6D-2.6 Validate through interview and observation that, if components are in human-readable form, they are visible only to the designated key-component custodian and only for the duration of time required for this person to privately enter the key component into an SCD.</p>	Personnel interviewed:	<Report Findings Here>
	Describe how it was verified that if components are in human-readable form, they are visible only to designated component custodians and only for the duration of time required for this person to privately enter the key component into an SCD:	
	<Report Findings Here>	
<p>6D-2.7 Written or printed key-component documents must not be opened until immediately prior to use.</p>		
<p>6D-2.7.a Review documented procedures and confirm that printed/written key-component documents are not opened until immediately prior to use.</p>	Documented procedures reviewed:	<Report Findings Here>
<p>6D-2.7.b Observe key-loading processes and verify that printed/written key components are not opened until immediately prior to use.</p>	Describe how the observed key-loading processes verified that printed/written key component documents are not opened until immediately prior to use:	
	<Report Findings Here>	
<p>6D-2.8 A person with access to any component or share of a secret or private key, or to the media conveying this value, must not have access to other components or shares of this key or to any other medium containing other components or shares of this key that are sufficient to form the necessary threshold to derive the key. <i>E.g., in an m-of-n scheme (which must use a recognized secret-sharing scheme such as Shamir), such that any three key components or shares (i.e., m = 3) can be used to derive the key, no single individual can have access to more than two components/shares.</i></p>		

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Requirements and Testing Procedures		Reporting Instructions and Assessor's Findings	
6D-2.8.a Examine documented procedures for the use of key components to verify that procedures ensure that any individual custodian only has access to their assigned components and never has access to sufficient key components to reconstruct a cryptographic key.	Documented procedures reviewed:	<Report Findings Here>	
	6D-2.8.b Examine key-component access controls and access logs to verify that any single authorized custodians can only access their assigned component(s) and cannot access sufficient key components to reconstruct a cryptographic key.	Describe how the observed key-component access controls and access logs verified that any single authorized custodian can only access their assigned component(s) and cannot access sufficient key components to reconstruct a cryptographic key:	<Report Findings Here>
6D-2.9 Key-injection facilities that use PC-based key-loading software platforms or similar devices (e.g., modified PEDs) that allow clear-text secret and/or private keys and/or their components to exist in unprotected memory outside the secure boundary of an SCD must minimally implement the following additional controls:			
6D-2.9 Interview appropriate personnel and review documentation to determine the procedures for key loading to POIs, key-loading devices, and HSMs that are part of the key-loading platform. Review any logs of key loading.	Appropriate personnel interviewed:	<Report Findings Here>	
	Documented procedures reviewed:	<Report Findings Here>	
	Key-loading logs reviewed:	<Report Findings Here>	
6D-2.9.1 PCs and similar devices must be: <ul style="list-style-type: none"> • Standalone (i.e., without modems, not connected to a LAN or WAN, not capable of wireless connections, etc.); • Dedicated to only the key-loading function (e.g., there must not be any other application software installed); and • Located in a physically secure room that is dedicated to key-loading activities. 			
6D-2.9.1 For facilities using PC-based key-loading software platforms or similar devices, verify through interviews and observation that the platform is: <ul style="list-style-type: none"> • Standalone • Dedicated to only key loading • Located in a physically secure room that is dedicated to key loading activities 	Personnel interviewed:	<Report Findings Here>	
	Identify the P2PE Assessor who confirms that for facilities using PC-based key-loading software platforms or similar devices, the platform is standalone, dedicated to only key loading, and located in a physically secure room that is dedicated to key loading activities	<Report Findings Here>	
6D-2.9.2 All hardware used in key loading (including the PC) must be managed under dual control. Key-injection must not occur unless there are minimally two individuals in the key-injection room at all times during the process. If a situation arises that would cause only one person to be in the room, all individuals must exit until at least two can be inside.			

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Requirements and Testing Procedures		Reporting Instructions and Assessor’s Findings	
<p>6D-2.9.2 Verify through interviews and observation that:</p> <ul style="list-style-type: none"> • All hardware used in key loading (including the PC) is managed under dual control. • Key-injection cannot occur unless there are minimally two individuals in the key-injection room at all times during the process. • Mechanisms exist (See Requirement 32) that do not permit the room to be occupied by fewer than two authorized individuals. 	Personnel interviewed:	<Report Findings Here>	
	Describe how observation of the facilities verified that:	<ul style="list-style-type: none"> • All hardware used in key loading (including the PC) is managed under dual control. • Key-injection cannot occur unless there are minimally two individuals in the key-injection room at all times during the process. • Mechanisms exist (See Requirement 32) that do not permit the room to be occupied by fewer than two authorized individuals 	
	<Report Findings Here>		
<p>6D-2.9.3 PC access and use must be monitored, and logs of all key loading must be maintained. These logs must be retained for a minimum of three years. The logs must be regularly (no less frequently than weekly) reviewed by an authorized person who does not have access to the room or to the PC. The reviews must be documented. The logs must include but not be limited to:</p> <ul style="list-style-type: none"> • Logs of access to the room from a badge-access system; • Logs of access to the room from a manual sign-in sheet; • User sign-on logs on the PC at the operating-system level; • User sign-on logs on the PC at the application level; • Logs of the device IDs and serial numbers that are loaded, along with the date and time and the individuals performing the key-injection; • Video surveillance logs with a minimum retention period of 45 days. 			
<p>6D-2.9.3.a Verify through interviews and observation that logs of key-loading activities are maintained and meet the following:</p> <ul style="list-style-type: none"> • Retained for a minimum of three years. • Regularly reviewed by an authorized person who does not have access to the room or to the PC. • The reviews are documented. 	Personnel interviewed:	<Report Findings Here>	
	Logs of key-loading activities reviewed:	<Report Findings Here>	

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Requirements and Testing Procedures		Reporting Instructions and Assessor's Findings	
6D-2.9.3.b Verify through interviews and observation that logs of key-loading activities are maintained and meet the following: <ul style="list-style-type: none"> • Retained for a minimum of three years. • Regularly reviewed by an authorized person who does not have access to the room or to the PC. • The reviews are documented. • Logs include a minimum of: <ul style="list-style-type: none"> – Access to the room from a badge access system, – Access to the room from a manual sign-in sheet, – User sign-on logs on the PC at the operating system level, – User sign-on logs on the PC at the application level, – Logs of the device IDs and serial numbers that are loaded along with the date and time and the individuals performing the key-injection, – Video surveillance logs with a minimum retention period of 45 days. 	Personnel interviewed:	<Report Findings Here>	
	Logs of key-loading activities reviewed:	<Report Findings Here>	
6D-2.9.4 Additionally:			
6D-2.9.4 Verify through interviews and observation that:	Personnel interviewed for 6D-2.9.4.x:	<Report Findings Here>	
6D-2.9.4.1 Cable attachments and the key-loading device must be examined before each use to ensure the equipment is free from tampering.			
6D-2.9.4.1 Cable attachments and the key-loading device are examined before each use to ensure the equipment is free from tampering.	Describe how it was verified that cable attachments and the key-loading device are examined before each use to ensure the equipment is free from tampering: <Report Findings Here>		
6D-2.9.4.2 The key-loading device must be started from a powered-off position every time key-loading activities occur.			
6D-2.9.4.2 The key-loading device is started from a powered-off position every time key-loading activities occur.	Describe how it was verified that the key-loading device is started from a powered-off position every time key-loading activities occur: <Report Findings Here>		
6D-2.9.4.3 The software application must load keys without recording any clear-text values on portable media or other unsecured devices.			
6D-2.9.4.3 The software application loads keys without recording any clear-text values on portable media or other unsecured devices.	Describe how it was verified that the software application loads keys without recording any clear-text values on portable media or other unsecured devices: <Report Findings Here>		
6D-2.9.4.4 Clear-text keys must not be stored except within an SCD.			

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings
6D-2.9.4.4 Clear-text keys are not stored except within an SCD.	Describe how it was verified that clear-text keys are not stored except within an SCD: <Report Findings Here>
6D-2.9.4.5 The personnel responsible for the systems administration of the PC (e.g., a Windows administrator who configures the PC’s user IDs and file settings, etc.) must not have authorized access into the room—they must be escorted by authorized key-injection personnel—and they must not have user IDs or passwords to operate the key-injection application.	
6D-2.9.4.5 Personnel responsible for the systems administration of the PC do not have authorized access into the room—i.e., they are escorted by authorized key-injection personnel—and do not have user IDs or passwords to operate the key-injection application.	Describe how it was verified that personnel responsible for the systems administration of the PC do not have authorized access into the room and do not have user IDs or passwords to operate the key-injection application: <Report Findings Here>
6D-2.9.4.6 The key-injection personnel must not have system-administration capability at either the O/S or the application level on the PC.	
6D-2.9.4.6 Key-injection personnel do not have system-administration capability at either the O/S or the application level on the PC.	Describe how it was verified that key-injection personnel do not have system-administration capability at either the O/S or the application level on the PC: <Report Findings Here>
6D-2.9.4.7 The PC must not be able to boot from external media (e.g., USB devices or CDs). It must boot from the hard drive only.	
6D-2.9.4.7 The PC is not able to boot from external media (e.g., USB devices or CDs). It must boot from the hard drive only.	Describe how it was verified that the PC is not able to boot from external media and must boot from the hard drive only: <Report Findings Here>
6D-2.9.4.8 Key-injection facilities must cover all openings on the PC that are not used for key-injection with security seals that are tamper-evident and serialized. Examples include but are not limited to PCMCIA, network, infrared and modem connections on the PC, and access to the hard drive and memory. The seals must be recorded in a log, and the log must be maintained along with the other key-loading logs in a dual-control safe. Verification of the seals must be performed prior to key-loading activities.	
6D-2.9.4.8 All openings on the PC that are not used for key-injection are covered with security seals that are tamper-evident and serialized. The seals are recorded in a log, and the log is maintained along with the other key-loading logs in a dual-control safe. Verification of the seals must be performed prior to key-loading activities.	Describe how it was verified that: <ul style="list-style-type: none"> • All openings on the PC that are not used for key-injection are covered with security seals that are tamper-evident and serialized. • The seals are recorded in a log, and the log is maintained along with the other key-loading logs in a dual-control safe. • Verification of the seals must be performed prior to key-loading activities. <Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings
<p>6D-2.9.4.9 If the PC application stores clear-text key components (e.g., BDks or TMKs) on portable electronic media (e.g., smart cards), the media must be secured as components under dual control when not in use. The key components must be manually entered at the start of each key-injection session from components that are maintained under dual control and split knowledge.</p> <p><i>Note: For DUKPT implementations, the BDk should be loaded from components each time and this requires manual tracking of the device ID counter and serial numbers from the previous key-loading session. Key-injection facilities with PC applications that require passwords to be used to initiate decryption of keys on portable electronic media (e.g., smart cards) must ensure the passwords are maintained under dual control and split knowledge.</i></p>	<p>Describe how it was verified that if the PC application stores keys on portable electronic media:</p> <ul style="list-style-type: none"> The media is secured as components under dual control when not in use. The key components are manually entered at the start of each key-injection session from components that are maintained under dual control and split knowledge. <p><Report Findings Here></p>
<p>6D-2.9.4.10 Manufacturer’s default passwords for PC-based applications must be changed.</p>	<p>Describe how manufacturer’s default passwords for PC-based applications were verified to be changed:</p> <p><Report Findings Here></p>
<p>6D-3.1 Any hardware and passwords used in the key-loading function must be controlled and maintained in a secure environment under dual control. Resources (e.g., passwords and associated hardware) must be managed such that no single individual has the capability to enable key loading. This is not to imply that individual access authentication mechanisms must be managed under dual control.</p>	<p><Report Findings Here></p>
<p>6D-3.1.a Examine documented procedures to verify they require the following:</p> <ul style="list-style-type: none"> Any hardware used in the key-loading function must be controlled and maintained in a secure environment under dual control. Any resources (e.g., passwords and associated hardware) used in the key-loading function must be controlled and managed such that no single individual has the capability to enable key loading. 	<p>Documented procedures reviewed:</p>
<p>6D-3.1.b Observe key-loading environments and controls to verify the following:</p> <ul style="list-style-type: none"> All hardware used in the key-loading function is controlled and maintained in a secure environment under dual control. All resources (e.g., passwords and associated hardware) used for key-loading functions are controlled and managed such that no single individual has the capability to enable key loading. 	<p>Describe how the observation of key-loading environments and controls verified that:</p> <ul style="list-style-type: none"> All hardware used in the key-loading function is controlled and maintained in a secure environment under dual control. All resources (e.g., passwords and associated hardware) used for key-loading functions are controlled and managed such that no single individual has the capability to enable key loading. <p><Report Findings Here></p>
<p>6D-3.2 All cable attachments must be examined before each key-loading operation to ensure they have not been tampered with or compromised.</p>	

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Requirements and Testing Procedures		Reporting Instructions and Assessor's Findings	
6D-3.2.a Review documented procedures to ensure they require that cable attachments be examined prior to key-loading function.	Documented procedures reviewed:	<Report Findings Here>	
6D-3.2.b Observe key-loading processes to verify that all cable attachments are properly examined prior to a key-loading function.	Describe how the key-loading processes observed verified that all cable attachments are properly examined prior to key-loading functions: <Report Findings Here>		
6D-3.3 Key-loading equipment usage must be monitored and a log of all key-loading activities maintained for audit purposes containing at a minimum date, time, personnel involved, and number of devices keys are loaded to.			
6D-3.3.a Observe key-loading activities to verify that key-loading equipment usage is monitored.	Describe how the key-loading activities observed verified that key-loading equipment usage is monitored: <Report Findings Here>		
6D-3.3.b Verify logs of all key-loading activities are maintained and contain all required information.	Logs of key-loading activities reviewed:	<Report Findings Here>	
6D-3.4 Any physical tokens (e.g., brass keys or chip cards) used to enable key-loading must not be in the control or possession of any one individual who could use those tokens to load secret or private cryptographic keys under single control. These tokens must be secured in a manner similar to key components including the use of access-control logs for when removed or placed into secure storage.			
6D-3.4.a Examine documented procedures for the use of physical tokens (e.g., brass keys or chip cards) to enable key loading. Verify procedures require that physical tokens must not be in the control or possession of any one individual who could use those tokens to load secret or private cryptographic keys under single control.	Documented procedures reviewed:	<Report Findings Here>	
6D-3.4.b Inspect locations and controls for physical tokens to verify that tokens used to enable key loading are not in the control or possession of any one individual who could use those tokens to load secret or private cryptographic keys under single control.	Identify the P2PE Assessor who inspected locations and controls for physical tokens and confirms that tokens used to enable key loading are not in the control or possession of any one individual who could use those tokens to load secret or private cryptographic keys under single control:	<Report Findings Here>	
6D-3.4.c Review storage locations for physical tokens to determine adequacy to ensure that only the authorized custodian(s) can access their specific tokens.	Identify the P2PE Assessor who confirms adequacy of reviewed storage locations for physical tokens to ensure that only the authorized custodian(s) can access their specific tokens:	<Report Findings Here>	
6D-3.4.d Verify that access-control logs exist and are in use.	Access-control logs reviewed:	<Report Findings Here>	

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6D-3.4.e Reconcile storage contents to access-control logs.	Identify the P2PE Assessor who reconciled storage contents to access-control logs:	<Report Findings Here>
6D-3.5 Default password or PINs used to enforce dual-control must be changed, and documented procedures must exist to require that these password/PINs be changed when assigned personnel change.		
6D-3.5.a Verify that documented procedures require default passwords or PINs used to enforce dual control are changed.	Documented procedures reviewed:	<Report Findings Here>
6D-3.5.b Verify that documented procedures exist to require that these passwords/PINs be changed when assigned personnel change.	Documented procedures reviewed:	<Report Findings Here>
6D-4.1 A cryptographic-based validation mechanism must be in place to ensure the authenticity and integrity of keys and/or their components (e.g., testing key check values, hashes, or other similar unique values that are based upon the keys or key components being loaded). See ISO 11568. Where check values are used, recorded, or displayed, key-component check values and key check values shall not exceed six hexadecimal characters in length.		
6D-4.1.a Examine documented procedures to verify a cryptographic-based validation mechanism is in place to ensure the authenticity and integrity of keys and/or components.	Documented procedures reviewed:	<Report Findings Here>
6D-4.1.b Observe the key-loading processes to verify that the defined cryptographic-based validation mechanism used to ensure the authenticity and integrity of keys and components is being used and are verified by the applicable key custodians.	Describe how the key-loading processes observed verified that the defined cryptographic-based validation mechanism used to ensure the authenticity and integrity of keys and components is being used and is verified by the applicable key custodians: <Report Findings Here>	
6D-4.1.c Verify that the methods used for key validation are consistent with ISO 11568—e.g., when check values are used, they should return a value of no more than six hexadecimal characters.	Describe how the key-loading processes observed verified that the methods used for key validation are consistent with ISO 11568: <Report Findings Here>	
6D-4.2 The public key must have its authenticity and integrity ensured. In order to ensure authenticity and integrity, a public key must be encrypted, or if in plaintext form, must: <ul style="list-style-type: none"> • Be within a certificate as defined in Annex A; or • Be within a PKCS#10; or • Be within an SCD; or • Have a MAC (message authentication code) created using the algorithm defined in ISO 16609. 		
6D-4.2.a Interview personnel and review documented procedures to verify that all public keys exist only in an approved form.	Personnel interviewed:	<Report Findings Here>
	Documented procedures reviewed:	<Report Findings Here>
6D-4.2.b Observe public-key stores and mechanisms to verify that public keys exist only in an approved form.	Describe how the observed public-key stores and mechanisms verified that public keys exist only in an approved form: <Report Findings Here>	

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6D-5.1 Documented key-loading procedures must exist for all devices (e.g., HSMs and POIs), and all parties involved in cryptographic key loading must be aware of those procedures.		
6D-5.1.a Verify documented procedures exist for all key-loading operations.	Documented procedures reviewed:	<Report Findings Here>
6D-5.1.b Interview responsible personnel to verify that the documented procedures are known and understood by all affected parties for all key-loading operations.	Responsible personnel interviewed:	<Report Findings Here>
6D-5.1.c Observe key-loading process for keys loaded as components and verify that the documented procedures are demonstrably in use. This may be done as necessary on test equipment—e.g., for HSMs.	Identify the P2PE Assessor who confirms that the documented procedures for keys loaded as components are demonstrably in use:	<Report Findings Here>
6D-5.2 All key-loading events must be documented. Audit trails must be in place for all key-loading events.		
6D-5.2 Examine log files and observe logging processes to verify that audit trails are in place for all key-loading events.	Log files examined:	<Report Findings Here>
	Describe how the logging processes observed verified that audit trails are in place for all key-loading events:	
	<Report Findings Here>	
6E-2.2 To prevent or detect usage of a compromised key, key-component packaging or containers that show signs of tampering must result in the discarding and invalidation of the component and the associated key at all locations where they exist.		
6E-2.2.a Verify documented procedures require that key-component packaging/containers showing signs of tampering must result in the destruction and invalidation of all associated key components and the resultant cryptographic key(s) at all locations where they exist.	Documented procedures reviewed:	<Report Findings Here>
6E-2.2.b Interview personnel and observe processes to verify procedures are implemented to require that key-component packaging/containers showing signs of tampering result in the destruction and invalidation of all associated key components and the resultant cryptographic key(s) at all locations where they exist.	Personnel interviewed:	<Report Findings Here>
	Describe how the processes observed verified that procedures are implemented to require that key-component packaging/containers showing signs of tampering result in the destruction and invalidation of all associated key components and the resultant cryptographic key(s) at all locations where they exist:	
	<Report Findings Here>	
6E-2.4 Controls must be in place to prevent and detect the loading of unencrypted private and secret keys or their components by any one single person. Note: Controls include physical access to the room, logical access to the key-loading application, video surveillance of activities in the key-injection room, physical access to secret or private cryptographic key components or shares, etc.		
6E-2.4.a Examine documented key-injection procedures to verify that controls are defined to prevent and detect the loading of keys by any one single person.	Documented procedures reviewed:	<Report Findings Here>

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Requirements and Testing Procedures		Reporting Instructions and Assessor’s Findings	
6E-2.4.b Interview responsible personnel and observe key-loading processes and controls to verify that controls—e.g., viewing CCTV images—are implemented to prevent and detect the loading of keys by any one single person.	Responsible personnel interviewed:	<Report Findings Here>	
	Describe how the key-loading processes and controls observed verified that controls are implemented to prevent and detect the loading of keys by any one single person:		
	<Report Findings Here>		
6E-2.5 Key-injection facilities must implement controls to protect against unauthorized substitution of keys and to prevent the operation of devices without legitimate keys. Examples include but are not limited to: <ul style="list-style-type: none"> • All devices loaded with keys must be tracked at each key-loading session by serial number. • Key-injection facilities must use something unique about the POI (e.g., logical identifiers) when deriving the key (e.g., DUKPT, TMK) injected into it. 			
6E-2.5.a Examine documented procedures to verify they include: <ul style="list-style-type: none"> • Controls to protect against unauthorized substitution of keys, and • Controls to prevent the operation of devices without legitimate keys. 	Documented procedures reviewed:	<Report Findings Here>	
	Responsible personnel interviewed:	<Report Findings Here>	
	Describe how the key-loading processes observed verified that: <ul style="list-style-type: none"> • Controls are implemented that protect against unauthorized substitution of keys, and • Controls are implemented that prevent the operation of devices without legitimate keys. 		
6E-3.1 Encryption keys must be used only for the purpose they were intended (i.e., key-encryption keys must not to be used as PIN-encryption keys, PIN-encryption keys must not be used for account data, etc.). This is necessary to limit the magnitude of exposure should any key(s) be compromised. Using keys only as they are intended also significantly strengthens the security of the underlying system.			
6E-3.1.a Examine key-management documentation (e.g., the cryptographic key inventory) and interview key custodians and key-management supervisory personnel to verify that cryptographic keys are defined for a specific purpose.	Key-management documentation reviewed:	<Report Findings Here>	
	Key custodians interviewed:	<Report Findings Here>	
	Key-management supervisory personnel interviewed:	<Report Findings Here>	

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
6E-3.1.b Using a sample of device types, validate via review of check values, terminal definition files, etc. that keys used for key encipherment or PIN encipherment are not used for any other purpose.	Sample of device types reviewed:	<Report Findings Here>
	Describe how review of check values, terminal definition files, etc. verified that keys used for key encipherment or PIN encipherment are not used for any other purpose:	
	<Report Findings Here>	
6E-3.2 Private keys must only be used as follows: <ul style="list-style-type: none"> For a single purpose—a private key must only be used for either decryption or for creating digital signatures, but not both (except for transaction-originating POI devices). Private keys shall never be used to encrypt other keys. 		
6E-3.2 Examine key-management documentation and interview key custodians and key-management supervisory personnel to verify that private keys are only used: <ul style="list-style-type: none"> To create digital signatures or to perform decryption operations. For a single purpose—a private key must only be used for either decryption or for creating digital signatures, but not both (except for POI devices). Private keys are never used to encrypt other keys. 	Key-management documentation reviewed:	<Report Findings Here>
	Key custodians interviewed:	<Report Findings Here>
	Key-management supervisory personnel interviewed:	<Report Findings Here>
6E-3.3 Public keys must only be used for a single purpose—a public key must only be used for either encryption or for verifying digital signatures, but not both (except for transaction-originating POI devices).		
6E-3.3 Examine key-management documentation and interview key custodians and key-management supervisory personnel to verify that public keys are only used: <ul style="list-style-type: none"> To perform encryption operations or to verify digital signatures. For a single purpose—a public key must only be used for either encryption or for verifying digital signatures, but not both (except for POI devices). 	Key-management documentation reviewed:	<Report Findings Here>
	Key custodians interviewed:	<Report Findings Here>
	Key-management supervisory personnel interviewed:	<Report Findings Here>
6E-3.4 Keys must never be shared or substituted between production and test/development systems: <ul style="list-style-type: none"> Key used for production keys must never be present or used in a test system, and Keys used for testing keys must never be present or used in a production system. 		
6E-3.4.a Examine key-management documentation and interview key custodians and key-management supervisory personnel to verify that cryptographic keys are never shared or substituted between production and development systems.	Key-management documentation reviewed:	<Report Findings Here>
	Key custodians interviewed:	<Report Findings Here>
	Key-management supervisory personnel interviewed:	<Report Findings Here>

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
6E-3.4.b Observe processes for generating and loading keys into in production systems to ensure that they are in no way associated with test or development keys.	Describe how the observed processes for generating and loading keys into production systems verified that they are in no way associated with test or development keys:	
	<Report Findings Here>	
6E-3.4.c Observe processes for generating and loading keys into test systems to ensure that they are in no way associated with production keys.	Describe how the observed processes for generating and loading keys into test systems verified that they are in no way associated with production keys:	
	<Report Findings Here>	
6E-3.4.d Compare check, hash, cryptogram, or fingerprint values for production and test/development keys for higher-level keys (e.g., MFKs, KEKs shared with other network nodes, and BDks) to verify that development and test keys have different key values.	Describe how the observed compared check, hash, cryptogram, or fingerprint values for production and test/development keys with higher-level keys (MFKs, KEKs shared with other network nodes, and BDks) verified that development and test keys have different key values:	
	<Report Findings Here>	
6E-3.5 If a business rationale exists, a production platform (HSM and server/standalone computer) may be temporarily used for test purposes. However, all keying material must be deleted from the HSM(s) and the key-injection server/computer platforms prior to testing. Subsequent to completion of testing, all keying materials must be deleted, the server/computer platforms must be wiped and rebuilt from read-only media, and the relevant production keying material restored using the principles of dual control and split knowledge as stated in these requirements. At all times the HSMs and servers/computers must be physically and logically secured in accordance with these requirements. <i>Note this does not apply to HSMs that are never intended to be used for production.</i>		
6E-3.5 Interview personnel to determine whether production platforms are ever temporarily used for test purposes. If they are, verify that documented procedures require that: <ul style="list-style-type: none"> • All keying material is deleted from the HSM(s) and the server /computer platforms prior to testing. • Subsequent to completion of testing, all keying materials must be deleted and the server/computer platforms must be wiped and rebuilt from read-only media, • Prior to reuse for production purposes the HSM is returned to factory state, • The relevant production keying material is restored using the principles of dual control and split knowledge as stated in these requirements. 	Personnel interviewed:	<Report Findings Here>
	Documented procedures reviewed:	<Report Findings Here>
6E-4.1 POI devices must implement unique secret and private keys for any function directly or indirectly related to account-data protection. These keys must be known only in that device and in hardware security modules (HSMs) at the minimum number of facilities consistent with effective system operations. Disclosure of the key in one such device must not provide any information that could be feasibly used to determine the key in any other such device. This means that not only the account-data-encryption key(s), but also keys that are used to protect other keys: firmware-authentication keys, payment application authentication, and display prompt control keys. As stated in the requirement, this does not apply to public keys resident in the device.		

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Requirements and Testing Procedures		Reporting Instructions and Assessor’s Findings	
<p>6E-4.1.a Examine documented procedures for the generation, loading, and usage of all keys used in transaction-originating POI devices. Verify the procedures ensure that all private and secret keys used in transaction-originating POI devices are:</p> <ul style="list-style-type: none"> • Known only to a single POI device, and • Known only to HSMs at the minimum number of facilities consistent with effective system operations. 	Documented procedures reviewed:	<Report Findings Here>	
	Describe how the observed HSM functions and procedures for generating and loading secret and private keys for use in transaction-originating POI devices verified that unique keys are generated and used for each POI device:	<Report Findings Here>	
<p>6E-4.1.b Observe HSM functions and procedures for generating and loading secret and private keys for use in transaction-originating POIs to verify that unique keys are generated and used for each POI device.</p>	Describe how the examined check values, hash, or fingerprint values for a sample of cryptographic keys from different POI devices verified that private and secret keys are unique for each POI device:	<Report Findings Here>	
	Describe how the examined check values, hash, or fingerprint values for a sample of cryptographic keys from different POI devices verified that private and secret keys are unique for each POI device:	<Report Findings Here>	
<p>6E-4.1.c Examine check values, hashes, or fingerprint values for a sample of cryptographic keys from different POI devices to verify private and secret keys are unique for each POI device. This can include comparing a sample of POI public keys (multiple devices for each POI vendor used) to determine that the associated private keys stored in the POI devices are unique per device—i.e., the public keys are unique.</p>			
<p>6E-4.2 If a POI device directly interfaces with more than one POI entity for decryption of account data (e.g., a different acquiring organization), the POI must have a completely different and unique key or set of keys for each acquiring organization. These different keys, or sets of keys, must be totally independent and not variants of one another.</p>			
<p>6E-4.2 Determine whether POI devices are intended to interface with multiple entities for decryption. If so:</p> <ul style="list-style-type: none"> • Examine documented procedures for generating all types of keys and verify the procedures ensure that unique keys, or sets of keys, are used for each acquiring organization and are totally independent and not variants of one another. • Interview personnel and observe key-generation processes to verify that unique keys or sets of keys are generated for each acquiring organization. 	Documented procedures reviewed:	<Report Findings Here>	
	Personnel interviewed:	<Report Findings Here>	
	Describe how the key-generation processes observed verified that unique keys or sets of keys are generated for each acquiring organization:	<Report Findings Here>	
	<Report Findings Here>	<Report Findings Here>	
<p>6E-4.3 Keys that are generated by a derivation process and derived from the same Base (master) Derivation Key must use unique data for the derivation process as defined in ISO 11568 so that all such cryptographic devices receive unique initial secret keys. Base derivation keys must not ever be loaded onto POI devices—i.e., only the derived key is loaded to the POI device.</p> <p>This requirement refers to the use of a single “base” key to derive master keys for many different POIs, using a key-derivation process as described above. This requirement does not preclude multiple unique keys being loaded on a single device, or for the device to use a unique key for derivation of other keys once loaded, e.g., as done with DUKPT.</p>			

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Requirements and Testing Procedures		Reporting Instructions and Assessor's Findings	
<p>6E-4.3.a Examine documented procedures and observe processes for generating master keys. Verify the following is implemented where master keys are generated by a derivation process and derived from the same Base Derivation Key:</p> <ul style="list-style-type: none"> • Unique data is used for the derivation process such that all transaction-originating POIs receive unique secret keys. • Key derivation is performed prior to a key being loaded/sent to the recipient transaction-originating POI. 	Documented procedures reviewed:	<Report Findings Here>	
	Describe how the processes observed for generating master keys verified that the following is implemented where master keys are generated by a derivation process and derived from the same Base Derivation Key: <ul style="list-style-type: none"> • Unique data is used for the derivation process such that all transaction-originating POI devices receive unique secret keys. • Key derivation is performed prior to a key being loaded/sent to the recipient transaction-originating POI. 	<Report Findings Here>	
<p>6E-4.3.b Verify that derivation keys used to generate keys for multiple devices are never loaded into a POI device.</p>	Documented procedures reviewed:	<Report Findings Here>	
	Describe how the processes observed for generating master keys verified that derivation keys used to generate keys for multiple devices are never loaded into a POI device:	<Report Findings Here>	
<p>6E-4.4 Entities processing or injecting DUKPT or other key-derivation methodologies for more than one acquiring organization must incorporate a segmentation strategy in their environments. Segmentation must use one or more of the following techniques:</p> <ul style="list-style-type: none"> • Different BDks for each financial institution • Different BDks by injection vendor (e.g., ESO), terminal manufacturer, or terminal model • Different BDks by geographic region, market segment, platform, or sales unit <p>Injection vendors must use at least one unique Base Derivation Key (BDK) per acquiring organization, and must be able to support segmentation of multiple BDks of acquiring organizations.</p>			
<p>6E-4.4.a Examine documented key-generation and injection procedures to verify that the following is required when injecting keys into a single POI for more than one acquiring organization:</p> <ul style="list-style-type: none"> • The POI must have a completely different and unique key, or set of keys, for each acquiring organization. • These different keys, or sets of keys, must be totally independent and not variants of one another. 	Documented procedures reviewed:	<Report Findings Here>	
	Describe how the processes observed for generation and injection of keys into a single POI for more than one acquiring organization verified that: <ul style="list-style-type: none"> • The POI has a completely different and unique key, or set of keys, for each acquiring organization. • These different keys, or sets of keys, are totally independent and not variants of one another. 	<Report Findings Here>	

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6E-4.5 Key-injection facilities that load DUKPT keys for various POI types for the same entity must use separate BDks per terminal type if the terminal IDs can be duplicated among the multiple types of terminals. In other words, the key-injection facility must ensure that any one given key cannot be derived for multiple devices except by chance.		
6E-4.5.a If the key-injection facility loads DUKPT keys, examine documented procedures for generation and use of BDks to verify they require use of separate BDks per terminal type.	Documented procedures reviewed:	<Report Findings Here>
6E-4.5.b Observe key-loading processes for a sample of terminal types used by a single entity, to verify that separate BDks are used for each terminal type.	Sample of terminal types used by a single entity reviewed:	<Report Findings Here>
	Describe how the key-loading processes observed verified that separate BDks are used for each terminal type:	
	<Report Findings Here>	
6E-4.6 Remote Key-Establishment and Distribution Applications The following requirements apply to key-injection facilities participating in remote key-establishment and distribution applications:		
<ul style="list-style-type: none"> Keys must be uniquely identifiable in all hosts and POI Devices (e.g., EPPs/PEDs). Keys must be identifiable via cryptographically verifiable means (e.g., through the use of digital signatures or key check values). Key pairs must be unique per POI device (e.g., EPPs and PEDs). 		
6E-4.6.a For techniques involving public key cryptography, examine documentation and develop a schematic to illustrate the process, including:	Documented procedures reviewed:	<Report Findings Here>
<ul style="list-style-type: none"> The size and sources of the parameters involved, and The mechanisms utilized for mutual device authentication for both the host and the POIPED. 		
6E-4.6.b If key-establishment protocols using public-key cryptography are used to distribute secret keys, verify that:	Documented procedures reviewed:	<Report Findings Here>
<ul style="list-style-type: none"> Cryptographic mechanisms exist to uniquely identify the keys. Key pairs used by POI devices are unique per device. 		
6F-1.1 Secret or private keys must only exist in one or more of the following forms:		
<ul style="list-style-type: none"> At least two separate key shares or full-length components Encrypted with a key of equal or greater strength as delineated in Annex C Contained within a secure cryptographic device 		
6F-1.1.a Examine documented procedures for key storage and usage and observe key stores to verify that secret or private keys only exist in one or more approved forms at all times when stored.	Documented procedures reviewed:	<Report Findings Here>
	Describe how the key stores observed verified that secret or private keys only exist in one or more approved forms at all times when stored:	
	<Report Findings Here>	

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Requirements and Testing Procedures		Reporting Instructions and Assessor’s Findings	
6F-1.1.b Observe key stores to verify that secret or private keys only exist in one or more approved forms at all times when stored.	Describe how the key stores observed verified that secret or private keys only exist in one or more approved forms at all times when stored:		
	<Report Findings Here>		
6F-1.2 Wherever key components are used, they have the following properties:			
6F-1.2 Examine documented procedures and interview responsible personnel to determine all instances where key components are used.	Documented procedures reviewed:	<Report Findings Here>	
	Responsible personnel interviewed:	<Report Findings Here>	
6F-1.2.1 Knowledge of any one key component/share does not convey any knowledge of any part of the actual cryptographic key.			
6F-1.2.1 Review processes for creating key components to verify that knowledge of any one key component does not convey any knowledge of any part of the actual cryptographic key.	Describe how the processes observed for creating key components verified that knowledge of any one key component does not convey any knowledge of any part of the actual cryptographic key:		
	<Report Findings Here>		
6F-1.2.2 Construction of the cryptographic key requires the use of at least two key components/shares.			
6F-1.2.2 Observe processes for constructing cryptographic keys to verify that at least two key components are required for each key construction.	Describe how the processes observed for constructing keys verified that at least two key components are required for each key construction:		
	<Report Findings Here>		
6F-1.2.3 Each key component/share has one or more specified authorized custodians.			
6F-1.2.3.a Examine documented procedures for the use of key components and interview key custodians and key-management supervisory personnel to verify that each key component is assigned to a specific individual, or set of individuals, who are designated as key custodians for that component.	Key-management documentation reviewed:	<Report Findings Here>	
	Key custodians interviewed:	<Report Findings Here>	
	Key-management supervisory personnel interviewed:	<Report Findings Here>	
6F-1.2.3.b Observe key-component access controls and key-custodian authorizations/assignments to verify that all individuals with access to key components are designated as key custodians for those particular components.	Describe how the key-component access controls and key-custodian authorizations/assignments observed verified that all individuals with access to key components are designated as key custodians for those particular components:		
	<Report Findings Here>		

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>6F-1.2.4 Procedures exist to ensure any custodian never has access to sufficient key components or shares of a secret or private key to reconstruct a cryptographic key.</p> <p><i>For example, in an m-of-n scheme (which must use a recognized secret-sharing scheme such as Shamir), where only two of any three components are required to reconstruct the cryptographic key, a custodian must not have current or prior knowledge of more than one component. If a custodian was previously assigned component A, which was then reassigned, the custodian must not then be assigned component B or C, as this would give them knowledge of two components, which gives them ability to recreate the key.</i></p> <p><i>In an m-of-n scheme where n=5 and where all three components are required to reconstruct the cryptographic key, a single custodian may be permitted to have access to two of the key components (e.g., component A and component B), as a second custodian (with, in this example, component C) would be required to reconstruct the final key, ensuring that dual control is maintained.</i></p>		
<p>6F-1.2.4.a Examine documented procedures for the use of key components to verify that procedures ensure that any custodian never has access to sufficient key components or shares to reconstruct a secret or private cryptographic key.</p>	Documented procedures reviewed:	<Report Findings Here>
<p>6F-1.2.4.b Examine key-component access controls and access logs to verify that authorized custodians cannot access sufficient key components or shares to reconstruct a secret or private cryptographic key.</p>	Describe how the key-component access controls and access logs observed verified that authorized custodians cannot access sufficient key components or shares to reconstruct a secret or private cryptographic key:	
	<Report Findings Here>	
<p>6F-1.3 Key components must be stored as follows:</p>		
<p>6F-1.3 Examine documented procedures, interview responsible personnel and inspect key-component storage locations to verify that key components are stored as outlined in Requirements 6F-1.3.1 through 6F-1.3.3 below:</p>	Documented procedures reviewed:	<Report Findings Here>
	Responsible personnel interviewed:	<Report Findings Here>
<p>6F-1.3.1 Key components that exist in clear text clear-text outside of an SCD must be sealed in opaque, pre-numbered tamper-evident, authenticable packaging that prevents the determination of the key component without noticeable damage to the packaging.</p> <p>Note: <i>Tamper-evident, authenticable packaging (opacity may be envelopes within tamper-evident packaging) used to secure key components must ensure that the key component cannot be determined. For components written on paper, opacity may be sufficient, but consideration must be given to any embossing or other possible methods to “read” the component without opening of the packaging. Similarly, if the component is stored on a magnetic card, contactless card, or other media that can be read without direct physical contact, the packaging should be designed to prevent such access to the key component.</i></p>		
<p>6F-1.3.1.a Examine key components and storage locations to verify that components are stored in opaque, pre-numbered tamper-evident packaging that prevents the determination of the key component without noticeable damage to the packaging.</p>	Describe how the key components and storage locations observed verified that components are stored in opaque, pre-numbered tamper-evident packaging that prevents the determination of the key component without noticeable damage to the packaging:	
	<Report Findings Here>	
<p>6F-1.3.1.b Inspect any tamper-evident packaging used to secure key components and ensure that it prevents the determination of the key component without visible damage to the packaging.</p>	Identify the P2PE Assessor who confirms that tamper-evident packaging prevents the determination of the key component without visible damage to the packaging:	<Report Findings Here>

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Requirements and Testing Procedures		Reporting Instructions and Assessor's Findings	
6F-1.3.1.c Interview responsible personnel to determine that clear-text key components do not exist in any other locations, including in non-secure containers, in databases, on floppy disks, or in software programs.	Responsible personnel interviewed:	<Report Findings Here>	
6F-1.3.1.d Confirm that start-up instructions and other notes used by service technicians do not contain initialization-key values written in the clear (e.g., at the point in the checklist where the keys are entered).	Identify the P2PE Assessor who confirms that start-up instructions and other notes used by service technicians do not contain initialization-key values written in the clear:	<Report Findings Here>	
6F-1.3.2 Key components for each specific custodian must be stored in a separate secure container that is accessible only by the custodian and/or designated backup(s). <i>Note: Furniture-based locks or containers with a limited set of unique keys—e.g., desk drawers—are not sufficient to meet this requirement. Components for a specific key that are stored in separate envelopes, but within the same secure container, place reliance upon procedural controls and do not meet the requirement for physical barriers.</i>			
6F-1.3.2 Inspect each key component storage container and verify the following: <ul style="list-style-type: none"> • Key components for different custodians are stored in separate secure containers. • Each secure container is accessible only by the custodian and/or designated backup(s). 	Identify the P2PE Assessor who confirms that for each key component storage container: <ul style="list-style-type: none"> • Key components for different custodians are stored in separate secure containers. • Each secure container is accessible only by the custodian and/or designated backup(s). 	<Report Findings Here>	
6F-1.3.3 If a key component is stored on a token, and an access code (e.g., a PIN or similar access-control mechanism) is used to access the token, only that token's owner (or designated backup(s)) must have possession of both the token and its access code.			
6F-1.3.3 Interview responsible personnel and observe implemented processes to verify that if a key is stored on a token, and an access code (PIN or similar mechanism) is used to access the token, only that token's owner—or designated backup(s)—has possession of both the token and its access code.	Responsible personnel interviewed:	<Report Findings Here>	
	Describe how the implemented processes observed verified that if a key is stored on a token, and an access code (PIN or similar mechanism) is used to access the token, only that token's owner—or designated backup(s)—has possession of both the token and its access code:		
	<Report Findings Here>		
6F-2.1 Procedures for known or suspected compromised keys must include the following:			
6F-2.1 Verify documented procedures exist for replacing known or suspected compromised keys that include all of the following (6F-2.1.1 through 6F-2.1.5 below):	Documented procedures reviewed:	<Report Findings Here>	
6F-2.1.1 Key components are never reloaded when there is any suspicion that either the originally loaded key or the SCD has been compromised.			

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings		
<p>6F-2.1.1 Interview responsible personnel and observe implemented processes to verify key components are never reloaded when there is any suspicion that either the originally loaded key or the SCD has been compromised.</p>	<table border="1"> <tr> <td>Responsible personnel interviewed:</td> <td><Report Findings Here></td> </tr> </table>	Responsible personnel interviewed:	<Report Findings Here>
	Responsible personnel interviewed:	<Report Findings Here>	
	Describe how the implemented processes observed verified that key components are never reloaded when there is any suspicion that either the originally loaded key or the SCD has been compromised:		
<Report Findings Here>			
<p>6F-2.1.2 If unauthorized alteration is suspected, new keys are not installed until the SCD has been inspected and assurance reached that the equipment has not been subject to any form of unauthorized modification.</p>			
<p>6F-2.1.2 Interview responsible personnel and observe implemented processes to verify that if unauthorized alteration is suspected, new keys are not installed until the SCD has been inspected and assurance reached that the equipment has not been subject to any form of unauthorized modification.</p>	<table border="1"> <tr> <td>Responsible personnel interviewed:</td> <td><Report Findings Here></td> </tr> </table>	Responsible personnel interviewed:	<Report Findings Here>
	Responsible personnel interviewed:	<Report Findings Here>	
	Describe how the implemented processes observed verified that if unauthorized alteration is suspected, new keys are not installed until the SCD has been inspected and assurance reached that the equipment has not been subject to any form of unauthorized modification:		
<Report Findings Here>			
<p>6F-2.1.3 A secret or private cryptographic key must be replaced with a new key whenever the compromise of the original key is known. Suspected compromises must be assessed and the analysis formally documented. If compromise is confirmed, the key must be replaced. In addition, all keys encrypted under or derived using that key must be replaced with a new key within the minimum feasible time. The replacement key must not be a variant or an irreversible transformation of the original key. Compromised keys must not be used to facilitate replacement with a new key(s). Note: <i>The compromise of a key must result in the replacement and destruction of that key and all variants and non-reversible transformations of that key, as well as all keys encrypted under or derived from that key.</i> <i>Known or suspected substitution of a secret key must result in the replacement of that key and any associated key-encipherment keys.</i></p>			
<p>6F-2.1.3 Interview responsible personnel and observe implemented processes to verify that if compromise of the cryptographic key is suspected, an assessment and analysis is performed. If compromise is confirmed, all the following are performed:</p> <ul style="list-style-type: none"> Processing with that key is halted, and the key is replaced with a new unique key. Any systems, devices, or processing involving subordinate keys that have been calculated, derived, or otherwise generated, loaded, or protected using the compromised key are included in the key-replacement process. The replacement key must not be a variant of the original key, or an irreversible transformation of the original key. 	<table border="1"> <tr> <td>Responsible personnel interviewed:</td> <td><Report Findings Here></td> </tr> </table>	Responsible personnel interviewed:	<Report Findings Here>
	Responsible personnel interviewed:	<Report Findings Here>	
	Describe how the implemented processes observed verified that if compromise of the cryptographic key is suspected, an assessment and analysis is performed. If compromise is confirmed, all the following are performed:		
<ul style="list-style-type: none"> Processing with that key is halted, and the key is replaced with a new unique key. Any systems, devices, or processing involving subordinate keys that have been calculated, derived, or otherwise generated, loaded, or protected using the compromised key are included in the key-replacement process. The replacement key must not be a variant of the original key, or an irreversible transformation of the original key. 			
<Report Findings Here>			

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>6F-2.1.4 A documented escalation process and notification to organizations that currently share or have previously shared the key(s), including:</p> <ul style="list-style-type: none"> • Identification of key personnel • A damage assessment including, where necessary, the engagement of outside consultants • Specific actions to be taken with system software and hardware, encryption keys, encrypted data, etc. 		
<p>6F-2.1.4.a Interview responsible personnel and review documented procedures to verify key personnel are identified and that the escalation process includes notification to organizations that currently share or have previously shared the key(s).</p>	Responsible personnel interviewed:	<Report Findings Here>
	Documented procedures reviewed:	<Report Findings Here>
<p>6F-2.1.4.b Verify notifications include the following:</p> <ul style="list-style-type: none"> • A damage assessment including, where necessary, the engagement of outside consultants. • Details of specific actions to be taken with system software and hardware, encryption keys, encrypted data, etc. 	Identify the P2PE Assessor who confirms that notifications include a damage assessment including, where necessary, the engagement of outside consultants and details of specific actions to be taken with system software and hardware, encryption keys, encrypted data, etc.	<Report Findings Here>
<p>6F-2.1.5 Identification of specific events that would indicate a compromise may have occurred. Such events must include but are not limited to:</p> <ul style="list-style-type: none"> • Missing secure cryptographic devices • Tamper-evident seals or authenticable envelope numbers or dates and times not agreeing with log entries • Tamper-evident seals or authenticable envelopes that have been opened without authorization or show signs of attempts to open or penetrate • Indications of physical or logical access attempts to the processing system by unauthorized individuals or entities • Failure to document that a secret or private key has been managed using the principles of dual control and split knowledge from its date of creation 		
<p>6F-2.1.5 Interview responsible personnel and review documented procedures to verify that specific events that may indicate a compromise are identified. This must include, as a minimum, the following events:</p> <ul style="list-style-type: none"> • Missing SCDs • Tamper-evident seals or authenticable envelope numbers or dates and times not agreeing with log entries • Tamper-evident seals or authenticable envelopes that have been opened without authorization or show signs of attempts to open or penetrate • Indications of physical or logical access attempts to the processing system by unauthorized individuals or entities • Failure to document that a secret or private key has been managed using the principles of dual control and split knowledge from its date of creation 	Responsible personnel interviewed:	<Report Findings Here>
	Documented procedures reviewed:	<Report Findings Here>
<p>6F-2.2 If attempts to load a secret key or key component into a KLD or POI fail, the same key or component must not be loaded into a replacement device unless it can be ensured that all residue of the key or component has been erased from or otherwise destroyed in the original KLD or POI</p>		

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6F-2.2 Interview responsible personnel and observe implemented processes to verify that if attempts to load a secret key or key component into a KLD or POI fail, the same key or component is not loaded into a replacement device unless it can be ensured that all residue of the key or component has been erased from or otherwise destroyed in the original KLD or POI.	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the implemented processes observed verified that if attempts to load a secret key or key component into an KLD or POI device fail, the same key or component is not loaded into a replacement device unless it can be ensured that all residue of the key or component has been erased from or otherwise destroyed in the original KLD or POI device:	
	<Report Findings Here>	
6F-3.1 Any key generated with a reversible process (such as a variant of a key) of another key must be protected in the same manner as the original key—that is, under the principles of dual control and split knowledge. Variants of the same key may be used for different purposes, but must not be used at different levels of the key hierarchy. For example, reversible transformations must not generate key-encipherment keys from PIN keys. <i>Note: Exposure of keys that are created using reversible transforms of another (key-generation) key can result in the exposure of all keys that have been generated under that key-generation key. To limit this risk posed by reversible key calculation, such as key variants, the reversible transforms of a key must be secured in the same way as the original key-generation key.</i>		
6F-3.1.a Examine documented procedures and interview responsible personnel to determine whether keys are generated using reversible key-calculation methods.	Documented procedures reviewed:	<Report Findings Here>
	Responsible personnel interviewed:	<Report Findings Here>
6F-3.1.b Observe processes to verify that any key generated using a reversible process of another key is protected under the principles of dual control and split knowledge.	Describe how the processes observed verified that any key generated using a reversible process of another key is protected under the principles of dual control and split knowledge:	
	<Report Findings Here>	
6F-3.2 An MFK used by host processing systems for encipherment of keys for local storage—and variants of the MFK—must not be used external to the (logical) configuration that houses the MFK itself. For example, MFKs and their variants used by host processing systems for encipherment of keys for local storage shall not be used for other purposes, such as key conveyance between platforms that are not part of the same logical configuration.		
6F-3.2.a Interview responsible personnel to determine which host MFKs keys exist as variants. <i>Note: Some HSMs may automatically generate variants or control vectors for specific keys, but it is still up to the entity to specify exact usage.</i>	Responsible personnel interviewed:	<Report Findings Here>
6F-3.2.b Review vendor documentation to determine support for key variants.	Vendor documentation reviewed:	<Report Findings Here>
6F-3.2.c Via review of the network schematic detailing transaction flows with the associated key usage and identification of the sources of the keys used, determine that variants of the MFK are not used external to the logical configuration that houses the MFK.	Describe how the review of the network schematic detailing transaction flows with the associated key usage and identification of the sources of the keys used verified that variants of the MFK are not used external to the logical configuration that houses the MFK:	
	<Report Findings Here>	

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>6F-3.3 Reversible key transformations are not used across different levels of the key hierarchy. For example, reversible transformations must not generate working keys (e.g., PEKs) from key-encrypting keys.</p> <p>Such transformations are only used to generate different types of key-encrypting keys from an initial key-encrypting key, or working keys with different purposes from another working key.</p> <p>Note: <i>Using transforms of keys across different levels of a key hierarchy—e.g., generating a PEK key from a key-encrypting key—increases the risk of exposure of each of those keys.</i></p> <p><i>It is acceptable to use one “working” key to generate multiple reversible transforms to be used for different working keys, such as a PIN key, MAC key(s), and data key(s) (where a different reversible transform is used to generate each different working key). Similarly, it is acceptable to generate multiple key-encrypting keys from a single key-encrypting key. However, it is not acceptable to generate working keys from key-encrypting keys.</i></p>		
<p>6F-3.3 Examine documented key-transformation procedures and observe implemented processes to verify that reversible key transformations are not used across different levels of the key hierarchy, as follows:</p> <ul style="list-style-type: none"> • Variants used as KEKs must only be calculated from other key-encrypting keys. • Variants of working keys must only be calculated from other working keys. 	Documented procedures reviewed:	<Report Findings Here>
	<p>Describe how the implemented processes observed verified that reversible key transformations are not used across different levels of the key hierarchy, as follows:</p> <ul style="list-style-type: none"> • Variants used as KEKs must only be calculated from other key-encrypting keys • Variants of working keys must only be calculated from other working keys. 	
	<Report Findings Here>	
<p>6F-4.1 Instances of secret or private keys, and their key components, that are no longer used or that have been replaced by a new key must be destroyed</p>		
<p>6F-4.1.a Verify documented procedures are in place for destroying secret or private keys, and their key components that are no longer used or that have been replaced by a new key.</p>	Documented procedures reviewed:	<Report Findings Here>
<p>6F-4.1.b Identify a sample of keys and key components that are no longer used or have been replaced. For each item in the sample, interview responsible personnel and examine key-history logs and key-destruction logs to verify that all keys have been destroyed.</p>	Sample of keys and key components that are no longer used or have been replaced reviewed:	<Report Findings Here>
	Responsible personnel interviewed:	<Report Findings Here>
	Key-history logs examined:	<Report Findings Here>
	Key-destruction logs examined:	<Report Findings Here>
<p>6F-4.1.c Review storage locations for the sample of destroyed keys to verify they are no longer kept.</p>	Describe how the storage locations observed verified that the sample of destroyed keys are no longer kept:	
<Report Findings Here>		

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6F-4.2 The procedures for destroying keys or key components that are no longer used or that have been replaced by a new key must be documented and sufficient to ensure that no part of the key or component can be recovered. This must be accomplished by use of a cross-cut shredder, pulping or burning. Strip-shredding is not sufficient.</p> <p><i>Note: Key destruction for keys installed in HSMs and POI devices is addressed in Requirement 6G-3.</i></p>		
<p>6F-4.2.a Examine documented procedures for destroying keys and confirm they are sufficient to ensure that no part of the key or component can be recovered.</p>	Documented procedures reviewed:	<Report Findings Here>
<p>6F-4.2.b Observe key-destruction processes to verify that no part of the key or component can be recovered.</p>	Describe how the key-destruction processes observed verified that no part of the key or component can be recovered: <Report Findings Here>	
<p>6F-4.2.1 Keys on all other storage media types in all permissible forms—physically secured, enciphered (except for electronic DB backups of cryptograms), or components—must be destroyed following the procedures outlined in ISO-9564 or ISO-11568. <i>For example, keys (including components or shares) maintained on paper must be burned, pulped, or shredded in a crosscut shredder.</i></p>		
<p>6F-4.2.1.a Examine documented procedures for destroying keys and confirm that keys on all other storage media types in all permissible forms—physically secured, enciphered, or components—must be destroyed following the procedures outlined in ISO-9564 or ISO-11568.</p>	Documented procedures reviewed:	<Report Findings Here>
<p>6F-4.2.1.b Observe key-destruction processes to verify that keys on all other storage media types in all permissible forms—physically secured, enciphered, or components—are destroyed following the procedures outlined in ISO-9564 or ISO-11568.</p>	Describe how the key-destruction processes observed verified that keys on all other storage media types in all permissible forms—physically secured, enciphered, or component—are destroyed following the procedures outlined in ISO-9564 or ISO-11568: <Report Findings Here>	
<p>6F-4.2.2 The key-destruction process must be observed by a third party other than the custodian. The third-party witness must sign an affidavit of destruction.</p>		
<p>6F-4.2.2.a Observe key-destruction process and verify that it is witnessed by a third party other than a key custodian.</p>	Identify the P2PE Assessor who confirms the key-destruction process is witnessed by a third party other than a key custodian for any component of that key:	<Report Findings Here>
<p>6F-4.2.2.b Inspect key-destruction logs and verify that a third-party, non-key-custodian witness signs an affidavit as a witness to the key destruction process.</p>	Key-destruction logs inspected:	<Report Findings Here>
<p>6F-4.2.3 Key components for keys other than the HSM MFK that have been successfully loaded and confirmed as operational must also be destroyed, unless the HSM does not store the encrypted values on a database but only stores the subordinate keys internal to the HSM. BDKs used in KLDs may also be stored as components where necessary to reload the KLD.</p>		
<p>6F-4.2.3.a Verify documented procedures exist for destroying key components of keys, once the keys are successfully loaded and validated as operational.</p>	Documented procedures reviewed:	<Report Findings Here>

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Requirements and Testing Procedures		Reporting Instructions and Assessor’s Findings	
6F-4.2.3.b Observe key-conveyance/loading processes to verify that any key components are destroyed once the keys are successfully loaded and validated as operational.		Describe how the key-conveyance/loading processes observed verified that any key components are destroyed once the keys are successfully loaded and validated as operational: <Report Findings Here>	
6F-5.1 To reduce the opportunity for key compromise, limit the number of key custodians to the minimum required for operational efficiency. For example:			
6F-5.1 Interview key custodians and key-management supervisory personnel and observe implemented processes to verify the following:		Key custodians interviewed:	<Report Findings Here>
		Key-management supervisory personnel interviewed:	<Report Findings Here>
6F-5.1.1 Designate key custodian(s) for each component, such that the fewest number (e.g., a primary and a backup) of key custodians are assigned as necessary to enable effective key management. Key custodians must be employees or contracted personnel			
6F-5.1.1 Review key-custodian assignments for each component to verify that: <ul style="list-style-type: none"> • A primary and a backup key custodian are designated for each component. • The fewest number of key custodians is assigned as necessary to enable effective key management. • Assigned key custodians are employees or contracted personnel 		Describe how the key-custodian assignments observed for each component verified that: <ul style="list-style-type: none"> • A primary and a backup key custodian are designated for each component. • The fewest number of key custodians is assigned as necessary to enable effective key management. • Assigned key custodians are employees or contracted personnel. 	
		<Report Findings Here>	
6F-5.1.2 Document this designation by having each custodian and backup custodian sign a key-custodian form.			
6F-5.1.2.a Examine completed key-custodian forms to verify that key custodians sign the form.		Completed key-custodian forms reviewed:	<Report Findings Here>
6F-5.1.2.b Examine completed key-custodian forms to verify that backup custodians sign the form.		Completed key-custodian forms reviewed:	<Report Findings Here>
6F-5.1.3 Each key-custodian form provides the following: <ul style="list-style-type: none"> • Specific authorization for the custodian • Identification of the custodian’s responsibilities for safeguarding key components or other keying material entrusted to them • Signature of the custodian acknowledging their responsibilities • An effective date for the custodian’s access • Signature of management authorizing the access 			

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6F-5.1.3 Examine all key-custodian forms to verify that they include the following:</p> <ul style="list-style-type: none"> • Specific authorization for the custodian • Identification of the custodian's responsibilities for safeguarding key components or other keying material entrusted to them • Signature of the custodian acknowledging their responsibilities • An effective date for the custodian's access • Signature of management authorizing the access 	Completed key-custodian forms reviewed:	<Report Findings Here>
<p>6F-5.1.4 In order for key custodians to be free from undue influence in discharging their custodial duties, key custodians sufficient to form the necessary threshold to create a key must not directly report to the same individual except as noted below for organizations of insufficient size. <i>For example, for a key managed as three components, at least two individuals report to different individuals. In an m-of-n scheme (which must use a recognized secret-sharing scheme such as Shamir), such as three of five key shares to form the key, key custodians sufficient to form the threshold necessary to form the key must not report to the same individual.</i> <i>The components collectively held by an individual and his or her direct reports shall not constitute a quorum (or shall not provide any information about the value of the key that is not derivable from a single component).</i> <i>When the overall organization is of insufficient size such that the reporting structure cannot support this requirement, procedural controls can be implemented. Organizations that are of such insufficient size that they cannot support the reporting-structure requirement must ensure key custodians do not report to each other (i.e., the manager cannot also be a key custodian), receive explicit training to instruct them from sharing key components with their direct manager and must sign key-custodian agreements that includes an attestation to the requirement.</i></p>		
<p>6F-5.1.4.a Examine key-custodian assignments and organization charts to confirm the following:</p> <ul style="list-style-type: none"> • Key custodians that form the necessary threshold to create a key do not directly report to the same individual. • Neither direct reports nor the direct reports in combination with their immediate supervisor possess the necessary threshold of key components sufficient to form any given key. 	Documented key-custodian assignments reviewed:	<Report Findings Here>
	Documented organization charts reviewed:	<Report Findings Here>
<p>6F-5.1.4.b For organizations that are such a small, modest size that they cannot support the reporting-structure requirement, ensure that documented procedures exist and are followed to:</p> <ul style="list-style-type: none"> • Ensure key custodians do not report to each other. • Receive explicit training to instruct them from sharing key components with their direct manager. • Sign key-custodian agreement that includes an attestation to the requirement. • Ensure training includes whistleblower procedures to report any violations. 	Documented procedures reviewed:	<Report Findings Here>

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Requirements and Testing Procedures		Reporting Instructions and Assessor’s Findings	
<p>6F-6.1 Logs must be kept whenever keys, key components, or related materials are removed from secure storage or loaded to an SCD. These logs must be archived for a minimum of two years subsequent to key destruction.</p> <p>At a minimum, logs must include the following:</p> <ul style="list-style-type: none"> • Date and time in/out • Key-component identifier • Purpose of access • Name and signature of custodian accessing the component • Tamper-evident package number (if applicable) 			
<p>6F-6.1.a Review log files and audit log settings to verify that logs are kept for any time that keys, key components, or related materials are:</p> <ul style="list-style-type: none"> • Removed from secure storage • Loaded to an SCD 	Log files reviewed:	<Report Findings Here>	
	Describe how the audit log settings observed verified that logs are kept for any time that keys, key components, or related materials are:		
	<ul style="list-style-type: none"> • Removed from secure storage • Loaded to an SCD 		
		<Report Findings Here>	
<p>6F-6.1.b Review log files and audit log settings to verify that logs include the following:</p> <ul style="list-style-type: none"> • Date and time in/out • Key-component identifier • Purpose of access • Name and signature of custodian accessing the component • Tamper-evident package number (if applicable) 	Log files reviewed:	<Report Findings Here>	
	Describe how the audit log settings observed verified that logs include the following:		
	<ul style="list-style-type: none"> • Date and time in/out • Key-component identifier • Purpose of access • Name and signature of custodian accessing the component • Tamper-evident package number (if applicable) 		
		<Report Findings Here>	
<p>6F-7.1 If backup copies of secret and/or private keys exist, they must be maintained in accordance with the same requirements as are followed for the primary keys.</p>			

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Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>6F-7.1 Interview responsible personnel and examine documented procedures and backup records to determine whether any backup copies of keys or their components exist. Perform the following:</p> <ul style="list-style-type: none"> • Observe backup processes to verify backup copies of secret and/or private keys are maintained in accordance with the same requirements as are followed for the primary keys. • Inspect backup storage locations and access controls or otherwise verify through examination of documented procedures and interviews of personnel that backups are maintained as follows: <ul style="list-style-type: none"> – Securely stored with proper access controls – Under at least dual control – Subject to at least the same level of security control as operational keys as specified in this document 	Documented procedures reviewed:	<Report Findings Here>
	Documented procedures reviewed:	<Report Findings Here>
	Backup records reviewed:	<Report Findings Here>
	Describe how the backup processes observed verified that backup copies of secret and/or private keys are maintained in accordance with the same requirements as are followed for the primary keys:	
	<Report Findings Here>	
Describe how the backup storage locations observed verified that backups are maintained as follows:		
<ul style="list-style-type: none"> • Securely stored with proper access controls • Under at least dual control • Subject to at least the same level of security control as operational keys as specified in this document 		
<Report Findings Here>		
<p>6F-7.2 If backup copies are created, the following must be in place:</p> <ul style="list-style-type: none"> • Creation (including cloning) must require a minimum of two authorized individuals to enable the process. • All requirements applicable for the original keys also apply to any backup copies of keys and their components. 		
<p>6F-7.2 Interview responsible personnel and observe backup processes to verify the following:</p> <ul style="list-style-type: none"> • The creation of any backup copies requires at least two authorized individuals to enable the process. • All requirements applicable for the original keys also apply to any backup copies of keys and their components. 	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the backup processes observed verified that:	
	<ul style="list-style-type: none"> • The creation of any backup copies requires at least two authorized individuals to enable the process • All requirements applicable for the original keys also apply to any backup copies of keys and their components. 	
<Report Findings Here>		
<p>6F-8.1 Written procedures must exist, and all affected parties must be aware of those procedures. All activities related to key administration performed by a key-injection facilities must be documented. This includes all aspects of key administration, as well as:</p> <ul style="list-style-type: none"> • Security awareness training • Role definition—nominated individual with overall responsibility • Background checks for personnel (within the constraints of local laws) • Management of personnel changes, including revocation of access control and other privileges when personnel move 		

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6F-8.1.a Examine documented procedures for key-administration operations to verify they include: <ul style="list-style-type: none"> • Security-awareness training • Role definition—nominated individual with overall responsibility • Background checks for personnel (within the constraints of local laws) • Management of personnel changes, including revocation of access control and other privileges when personnel move 	Documented procedures reviewed:	<Report Findings Here>
6F-8.1.b Interview personnel responsible for key-administration operations to verify that the documented procedures are known and understood.	Responsible personnel interviewed:	<Report Findings Here>
6F-8.1.c Interview personnel to verify that security-awareness training is provided for the appropriate personnel.	Personnel interviewed:	<Report Findings Here>
6F-8.1.d Interview responsible HR personnel to verify that background checks are conducted (within the constraints of local laws).	Responsible HR personnel interviewed:	<Report Findings Here>
6G-1.1 Secure cryptographic devices—such as HSMs and POI devices—must be placed into service only if there is assurance that the equipment has not been subject to unauthorized modification, substitution, or tampering and has not otherwise been subject to misuse prior to deployment.		
6G-1.1.a Review documented procedures to confirm that processes are defined to provide the following assurances prior to the loading of cryptographic keys: <ul style="list-style-type: none"> • POIs have not been substituted or subjected to unauthorized modifications or tampering. • SCDs used for key injection/loading or code signing have not been substituted or subjected to unauthorized modifications or tampering. 	Documented procedures reviewed:	<Report Findings Here>
6G-1.1.b Observe processes and interview personnel to verify that processes are followed to provide the following assurances prior to the loading of cryptographic keys: <ul style="list-style-type: none"> • POIs have not been substituted or subjected to unauthorized modifications or tampering. • SCDs used for key injection/loading or code signing have not been substituted or subjected to unauthorized modifications or tampering. 	Personnel interviewed:	<Report Findings Here>
	Identify the P2PE Assessor who confirms that processes are followed to provide the following assurances prior to the loading of cryptographic keys: <ul style="list-style-type: none"> • POI devices have not been substituted or subjected to unauthorized modifications or tampering. • SCDs used for key injection/loading or code signing have not been substituted or subjected to unauthorized modifications or tampering. 	<Report Findings Here>

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6G-1.1.1 Controls must be implemented to protect POIs and other SCDs from unauthorized access up to point of deployment. Controls must include the following:		
6G-1.1.1 Review documented procedures to verify controls are defined to protect POIs and other SCDs from unauthorized access up to point of deployment.	Documented procedures reviewed:	<Report Findings Here>
6G-1.1.1.1 Access to all POIs and other SCDs is documented, defined, logged, and controlled such that unauthorized individuals cannot access, modify, or substitute any device without detection.		
6G-1.1.1.1.a Examine access-control documentation and device configurations to verify that access to all POIs and key-injection/loading devices is defined and documented.	Access-control documentation reviewed:	<Report Findings Here>
	Describe how the device configurations observed verified that access to all POIs and key injection/loading devices is defined and documented: <Report Findings Here>	
6G-1.1.1.1.b For a sample of POIs and other SCDs, observe authorized personnel accessing devices and examine access logs to verify that access to all POIs and other SCDs is logged.	Sample of POIs and other SCDs:	<Report Findings Here>
	Access logs reviewed:	<Report Findings Here>
	Describe how the observation of authorized personnel accessing devices and access logs verified that access to all POIs and other SCDs is logged: <Report Findings Here>	
6G-1.1.1.1.c Examine implemented access controls to verify that unauthorized individuals cannot access, modify, or substitute any POI or other SCD.	Describe how implemented access controls verified that unauthorized individuals cannot access, modify, or substitute any POI or other SCD: <Report Findings Here>	
6G-1.1.1.2 POIs and other SCDs must not use default keys or data (such as keys that are pre-installed for testing purposes) or passwords.		
6G-1.1.1.2 Examine vendor documentation or other information sources to identify default keys (such as keys that are pre-installed for testing purposes), passwords, or data. Observe implemented processes and interview personnel to verify that default keys or passwords are not used.	Vendor documentation or other information source reviewed:	<Report Findings Here>
	Personnel interviewed:	<Report Findings Here>
	Describe how the implemented processes observed verified that default keys, passwords or data are not used: <Report Findings Here>	

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6G-1.1.1.3 All personnel with access to POIs and other SCDs prior to deployment are documented in a formal list and authorized by management. A documented security policy must exist that requires the specification of personnel with authorized access to all secure cryptographic devices. This includes documentation of all personnel with access to POIs and other SCDs as authorized by management. The list of authorized personnel is reviewed at least annually.		
6G-1.1.1.3.a Examine documented authorizations for personnel with access to devices to verify that prior to deployment: <ul style="list-style-type: none"> All personnel with access to POIs and other SCDs are documented in a formal list. All personnel with access to POIs and other SCDs are authorized by management. The authorizations are reviewed annually. 	Documented authorizations reviewed:	<Report Findings Here>
6G-1.1.1.3.b For a sample of POIs and other SCDs, examine implemented access controls to verify that only personnel documented and authorized in the formal list have access to devices.	Sample of POIs and other SCDs reviewed:	<Report Findings Here>
	Describe how the implemented access controls observed verified that only personnel documented and authorized in the formal list have access to devices:	
	<Report Findings Here>	
6G-1.2 Implement a documented “chain of custody” to ensure that all devices are controlled from receipt through to placement into service. The chain of custody must include records to identify responsible personnel for each interaction with the devices.		
6G-1.2.a Examine documented processes to verify that the chain of custody is required for devices from receipt to placement into service.	Documented processes reviewed:	<Report Findings Here>
6G-1.2.b For a sample of devices, review documented records and interview responsible personnel to verify the chain of custody is maintained from receipt to placement into service.	Sample of POIs and other SCDs reviewed:	<Report Findings Here>
	Documented records reviewed:	<Report Findings Here>
	Responsible personnel interviewed:	<Report Findings Here>
6G-1.2.c Verify that the chain-of-custody records identify responsible personnel for each interaction with the device	Documented records reviewed:	<Report Findings Here>

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings	
<p>6G-1.3 Implement physical protection of devices from the manufacturer’s facility up to the point of key-insertion and deployment, through one or more of the following.</p> <ul style="list-style-type: none"> • Transportation using a trusted courier service (e.g., via bonded carrier). The devices are then securely stored until key-insertion and deployment occurs. • Use of physically secure and trackable packaging (e.g., pre-serialized, counterfeit-resistant, tamper-evident packaging). The devices are then stored in such packaging, or in secure storage, until key insertion and deployment occurs. • A secret, device-unique “transport-protection token” is loaded into the secure storage area of each device at the manufacturer’s facility. Before key-insertion, the SCD used for key-insertion verifies the presence of the correct “transport-protection token” before overwriting this value with the initial key, and the device is further protected until deployment. • Each cryptographic device is carefully inspected and tested immediately prior to key-insertion and deployment using due diligence. This is done to provide reasonable assurance that it is the legitimate device and that it has not been subject to any unauthorized access or modifications. (Note: <i>Unauthorized access includes that by customs officials.</i>) <ul style="list-style-type: none"> – Devices incorporate self-tests to ensure their correct operation. Devices must not be re-installed unless there is assurance they have not been tampered with or compromised. (Note: <i>This control must be used in conjunction with one of the other methods.</i>) – Controls exist and are in use to ensure that all physical and logical controls and anti-tamper mechanisms used are not modified or removed. 		
<p>6G-1.3.a Examine documented procedures to confirm that they require physical protection of devices from the manufacturer’s facility up to the point of key-insertion and deployment, through one or more of the defined methods.</p>	Documented procedures reviewed:	<Report Findings Here>
<p>6G-1.3.b Interview responsible personnel to verify that one or more of the defined methods are in place to provide physical device protection for devices, from the manufacturer’s facility up to the point of key-insertion and deployment.</p>	Responsible personnel interviewed:	<Report Findings Here>
<p>6G-1.4 Dual-control mechanisms must exist to prevent substitution or tampering of HSMs—both deployed and spare or back-up devices—throughout their life cycle. Procedural controls, which may be a combination of physical barriers and logical controls, may exist to support the prevention and detection of substituted HSMs but must not supplant the implementation of dual-control mechanisms.</p>		
<p>6G-1.4.a Examine documented procedures to confirm that dual-control mechanisms exist to prevent substitution or tampering of HSMs—both deployed and spare or back-up devices—throughout their life cycle.</p>	Documented procedures reviewed:	<Report Findings Here>
<p>6G-1.4.b Interview responsible personnel and physically verify the dual-control mechanism used to prevent substitution or tampering of HSMs—both in-service and spare or back-up devices—throughout their life cycle.</p>	Responsible personnel interviewed:	<Report Findings Here>
	Identify the P2PE Assessor who physically verified the dual-control mechanism used to prevent substitution or tampering of HSMs—both in service and spare or back-up devices—throughout their life cycle:	<Report Findings Here>
<p>6G-1.4.1 HSM serial numbers must be compared to the serial numbers documented by the sender (sent using a different communication channel from the device) to ensure device substitution has not occurred. A record of device serial-number verification must be maintained.</p> <p>Note: <i>Documents used for this process must be received via a different communication channel—i.e., the control document used must not have arrived with the equipment. An example of how serial numbers may be documented by the sender includes but is not limited to the manufacturer’s invoice or similar document</i></p>		

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures		Reporting Instructions and Assessor's Findings	
6G-1.4.1.a Interview responsible personnel to verify that device serial numbers are compared to the serial number documented by the sender.	Documented procedures reviewed:	<Report Findings Here>	
6G-1.4.1.b For a sample of received devices, review sender documentation sent via a different communication channel than the devices shipment (e.g., the manufacturer's invoice or similar documentation) used to verify device serial numbers. Examine the record of serial-number validations to confirm the serial number for the received device was verified to match that documented by the sender.	Sample of received devices:	<Report Findings Here>	
	Sender documentation/record of serial-number validations reviewed:	<Report Findings Here>	
6G-1.4.2 The security policy enforced by the HSM must not allow unauthorized or unnecessary functions. HSM API functionality and commands that are not required in account data-processing equipment to support specified functionality must be disabled before the equipment is commissioned.			
6G-1.4.2.a Obtain and review the defined security policy to be enforced by the HSM	Documented security policy reviewed:	<Report Findings Here>	
6G-1.4.2.b Examine documentation of the HSM configuration settings to determine that the functions and command authorized to be enabled are in accordance with the security policy.	HSM configuration settings documentation reviewed:	<Report Findings Here>	
6G-1.4.2.c For a sample of HSMs, review the configuration settings to determine that only authorized functions are enabled.	Sample of HSMs reviewed:	<Report Findings Here>	
	Describe how the HSM configuration settings observed verified that only authorized functions are enabled:	<Report Findings Here>	
6G-1.4.3 Inspect and test all HSMs—either new or retrieved from secure storage—prior to installation to verify devices have not been tampered with or compromised. Processes must include:			
6G-1.4.3 Examine documented procedures to verify they require inspection and testing of HSMs prior to installation to verify integrity of device and include requirements specified at 6G-1.4.4.1 through 6G-1.4.4.4 below.	Documented procedures reviewed:	<Report Findings Here>	
6G-1.4.3.1 Running self-tests to ensure the correct operation of the device			
6G-1.4.3.1 Examine records of device inspections and test results to verify that self-tests are run on devices to ensure the correct operation of the device.	Records of device inspections reviewed:	<Report Findings Here>	
	Describe how records of device inspections and test results verified that self-tests are run on devices to ensure the correct operation of the device:	<Report Findings Here>	
6G-1.4.3.2 Installing (or re-installing) devices only after confirming that the device has not been tampered with or compromised			

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures		Reporting Instructions and Assessor's Findings	
6G-1.4.3.2 Observe inspection processes and interview responsible personnel to verify that devices are installed, or reinstalled, only after confirming that the device has not been tampered with or compromised.	Responsible personnel interviewed:	<Report Findings Here>	
	Describe how the inspection processes observed verified that devices are installed, or reinstalled, only after confirming that the device has not been tampered with or compromised:	<Report Findings Here>	
	<Report Findings Here>		
6G-1.4.3.3 Physical and/or functional tests and visual inspection to confirm that physical and logical controls and anti-tamper mechanisms are not modified or removed			
6G-1.4.3.3 Observe inspection processes and interview responsible personnel to confirm processes include physical and/or functional tests and visual inspection to verify that physical and logical controls and anti-tamper mechanisms are not modified or removed.	Responsible personnel interviewed:	<Report Findings Here>	
	Describe how the inspection processes observed verified that processes include physical and/or functional tests and visual inspection to verify that physical and logical controls and anti-tamper mechanisms are not modified or removed:	<Report Findings Here>	
	<Report Findings Here>		
6G-1.4.3.4 Maintaining records of the tests and inspections, and retaining records for at least one year			
6G-1.4.3.4.a Examine records of inspections and interview responsible personnel to verify records of the tests and inspections are maintained.	Records of inspections examined:	<Report Findings Here>	
	Responsible personnel interviewed:	<Report Findings Here>	
6G-1.4.3.4.b Examine records of inspections to verify records are retained for at least one year.	Records of inspections examined:	<Report Findings Here>	
6G-1.4 Maintain HSMS in tamper-evident packaging or in secure storage until ready for installation.			
6G-1.4.a Examine documented procedures to verify they require devices be maintained in tamper-evident packaging until ready for installation.	Documented procedures reviewed:	<Report Findings Here>	
6G-1.4.b Observe a sample of received devices to verify they are maintained in tamper-evident packaging until ready for installation.	Sample of received devices reviewed:	<Report Findings Here>	

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
<p>6G-2.3 Processes must exist to ensure that key injection operations are performed and reconciled on an inventory of pre-authorized devices. Processes must include the following:</p> <ul style="list-style-type: none"> • Each production run must be associated with a predefined inventory of identified POI devices to be injected or initialized with keys. • Unauthorized personnel must not be able to modify this inventory without detection. • All POI devices to be initialized with keys on a production run must be identified and accounted for against the inventory. • Unauthorized POI devices submitted for injection or initialized must be rejected by the injection platform and investigated. • Once processed by the KIF, whether successfully initialized with keys or not, all submitted POI devices must be identified and accounted for against the inventory. <p>Note: <i>The KIF platform must ensure that only authorized devices can ever be injected or initialized with authorized keys. Processes must prevent (1) substitution of an authorized device with an unauthorized device, and (2) insertion of an unauthorized device into a production run.</i></p>		
<p>6G-2.3.a Obtain and review documentation of inventory control and monitoring procedures. Determine that the procedures cover:</p> <ul style="list-style-type: none"> • Each production run is associated with a predefined inventory of identified POI devices to be injected or initialized with keys. • Unauthorized personnel are not able to modify this inventory without detection. • All POI devices to be initialized with keys on a production run are identified and accounted for against the inventory. • Unauthorized POI devices submitted for injection or initialized are rejected by the injection platform and investigated. • Once processed by the KIF, whether successfully initialized with keys or not, all submitted POI devices are identified and accounted for against the inventory. 	Documented procedures reviewed:	<Report Findings Here>
<p>6G-2.3.b Interview applicable personnel to determine that procedures are known and followed.</p>	Applicable personnel interviewed:	<Report Findings Here>
<p>6G-3.1 Procedures are in place to ensure that any SCDs to be removed from service—e.g., retired, or returned for repair—are not intercepted or used in an unauthorized manner, including that all keys, key material, and account data stored within the device must be rendered irrecoverable. Processes must include the following:</p> <p>Note: <i>Without proactive key-removal processes, devices removed from service can retain cryptographic keys in battery-backed RAM for days or weeks. Likewise, host/hardware security modules (HSMs) can also retain keys—and more critically, the Master File Key—resident within these devices. Proactive key-removal procedures must be in place to delete all such keys from any SCD being removed from the network.</i></p>		
<p>6G-3.1 Verify that documented procedures for removing SCDs from service include the following:</p> <ul style="list-style-type: none"> • Procedures require that all keys and key material stored within the device be securely destroyed. • Procedures cover all devices removed from service or for repair. • Procedures cover requirements at 6G-3.1.1 through 6G-3.1.6 below. 	Documented procedures reviewed:	<Report Findings Here>
<p>6G-3.1.1 HSMs require dual control (e.g., to invoke the system menu) to implement for all critical decommissioning processes.</p>		

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures		Reporting Instructions and Assessor's Findings	
6G-3.1.1.a Review documented procedures for removing HSM from service to verify that dual control is implemented for all critical decommissioning processes.	Documented procedures reviewed:	<Report Findings Here>	
	6G-3.1.1.b Interview personnel and observe demonstration (if HSM is available) of processes for removing HSM from service to verify that dual control is implemented for all critical decommissioning processes	Personnel interviewed:	<Report Findings Here>
	Describe how the demonstration verified that dual control is implemented for all critical decommissioning processes:		<Report Findings Here>
6G-3.1.2 Keys are rendered irrecoverable (e.g., zeroized) for SCDs. If data cannot be rendered irrecoverable, devices must be physically destroyed under dual control to prevent the disclosure of any sensitive data or keys.			
6G-3.1.2 Interview personnel and observe demonstration of processes for removing SCDs from service to verify that all keying material is rendered irrecoverable (e.g., zeroized), or that devices are physically destroyed under dual control to prevent the disclosure of any sensitive data or keys.	Personnel interviewed:	<Report Findings Here>	
	Describe how the demonstration verified that all keying material and account data are rendered irrecoverable, or that devices are physically destroyed under dual control to prevent the disclosure of any sensitive data or keys:		<Report Findings Here>
6G-3.1.3 SCDs being decommissioned are tested and inspected to ensure keys have been rendered irrecoverable.			
6G-3.1.3 Interview personnel and observe processes for removing SCDs from service to verify that tests and inspections of devices are performed to confirm that keys have been rendered irrecoverable or the devices are physically destroyed.	Personnel interviewed:	<Report Findings Here>	
	Describe how the processes observed verified that tests and inspections of devices are performed to confirm that keys and account data have been rendered irrecoverable or the devices are physically destroyed:		<Report Findings Here>
6G-3.1.4 Affected entities are notified before devices are returned.			
6G-3.1.4 Interview responsible personnel and examine device-return records to verify that affected entities are notified before devices are returned.	Responsible personnel interviewed:	<Report Findings Here>	
	Device-return records examined:	<Report Findings Here>	
6G-3.1.5 Devices are tracked during the return process.			
6G-3.1.5 Interview responsible personnel and examine device-return records to verify that devices are tracked during the return process.	Responsible personnel interviewed:	<Report Findings Here>	
	Device-return records examined:	<Report Findings Here>	
6G-3.1.6 Records of the tests and inspections maintained for at least one year.			

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Requirements and Testing Procedures		Reporting Instructions and Assessor's Findings	
6G-3.1.6 Interview personnel and observe records to verify that records of the tests and inspections are maintained for at least one year.	Personnel interviewed:	<Report Findings Here>	
	Records of testing examined:	<Report Findings Here>	
6G-4.1 For HSMs and other SCDs used for the generation or loading of cryptographic keys for use in POI devices, procedures must be documented and implemented to protect against unauthorized access and use. Required procedures and processes include the following:			
6G-4.1 Examine documented procedures to confirm that they specify protection against unauthorized access and use for HSMs and other devices used for the generation or loading of cryptographic keys for use in POI devices, and that they cover the requirements at 6G-4.1.1 through 6G-4.1.5 below.	Documented procedures reviewed:	<Report Findings Here>	
6G-4.1.1 Devices must not be authorized for use except under the dual control of at least two authorized people. <i>Note: Dual control consists of logical and/or physical characteristics. For example, dual control may be implemented for logical access via two individuals with two different passwords at least five characters in length, or for physical access via a physical lock that requires two individuals, each with a different high-security key. For devices that do not support two or more passwords, this may be achieved by splitting the single password used by the device into two halves, each half controlled by a separate authorized custodian.</i> <i>Physical keys, authorization codes, passwords, or other enablers must be managed so that no one person can use both the enabler(s) and the device, which can create cryptograms of known keys or key components under a key-encipherment key used in production.</i>			
6G-4.1.1 Observe dual-control mechanisms and device-authorization processes to confirm that logical and/or physical characteristics are in place that prevent the device being authorized for use except under the dual control of at least two authorized people.	Describe how the dual-control mechanisms and device-authorization processes observed verified that logical and/or physical characteristics are in place that prevent the device being authorized for use except under the dual control of at least two authorized people:		
	<Report Findings Here>		
6G-4.1.2 Passwords used for dual control must each be of at least five numeric and/or alphabetic characters.			
6G-4.1.2 Observe password policies and configuration settings to confirm that passwords used for dual control must be at least five numeric and/or alphabetic characters.	Password policies reviewed:	<Report Findings Here>	
	Describe how the configuration settings observed verified that passwords used for dual control must be at least five numeric and/or alphabetic characters:		
	<Report Findings Here>		
6G-4.1.3 Dual control must be implemented for the following: <ul style="list-style-type: none"> • To enable any manual key-encryption functions and any key-encryption functions that occur outside of normal transaction processing; • To place the device into a state that allows for the input or output of clear-text key components; • For all access to key-loading devices KLDs 			

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Requirements and Testing Procedures		Reporting Instructions and Assessor's Findings		
<p>6G-4.1.3 Examine dual-control mechanisms and observe authorized personnel performing the defined activities to confirm that dual control is implemented for the following:</p> <ul style="list-style-type: none"> To enable any manual key-encryption functions, and any key-encryption functions that occur outside of normal transaction processing; To place the device into a state that allows for the input or output of clear-text key components; For all access to KLDs 	Dual-control mechanisms examined:	<Report Findings Here>		
	Describe how the observation of authorized personnel performing the defined activities verified that dual control is implemented for the following:	<ul style="list-style-type: none"> To enable any manual key-encryption functions, and any key-encryption functions that occur outside of normal transaction processing; To place the device into a state that allows for the input or output of clear-text key components; For all access to KLDs. 		
	<Report Findings Here>			
<p>6G-4.1.4 Devices must not use default passwords.</p>				
<p>6G-4.1.4.a Examine password policies and documented procedures to confirm default passwords must not be used for HSMs, KLDs, and other SCDs used to generate or load cryptographic keys.</p>	Documented procedures and password policies reviewed:	<Report Findings Here>		
	<p>6G-4.1.4.b Observe device configurations and interview device administrators to verify that HSMs, KLDs, and other SCDs used to generate or load cryptographic keys do not use default passwords.</p>	Device administrators interviewed:	<Report Findings Here>	
		Describe how the device configurations observed verified that HSMs, KLDs and other SCDs used to generate or load cryptographic keys, do not use default passwords:	<Report Findings Here>	
<p>6G-4.1.5 To detect any unauthorized use, devices are at all times within a secure room and either:</p> <ul style="list-style-type: none"> Locked in a secure cabinet and/or sealed in tamper-evident packaging, or Under the continuous supervision of at least two authorized people who ensure that any unauthorized use of the device would be detected. <p>Note: POI devices may be secured by storage in the dual-control access key injection room.</p>				
<p>6G-4.1.5.a Examine documented procedures to confirm that they require devices are at all times within a secure room and either:</p> <ul style="list-style-type: none"> Locked in a secure cabinet and/or sealed in tamper-evident packaging at all times, or Under the continuous supervision of at least two authorized people at all times. 	Documented procedures reviewed:	<Report Findings Here>		

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Requirements and Testing Procedures	Reporting Instructions and Assessor's Findings	
6G-4.1.5.b Interview responsible personnel and observe devices and processes to confirm that devices at all times within a secure room and are either: <ul style="list-style-type: none"> Locked in a secure cabinet and/or sealed in tamper-evident packaging at all times, or Under the continuous supervision of at least two authorized people at all times. 	Responsible personnel interviewed:	<Report Findings Here>
	Describe how the devices and processes observed verified that devices are at all times within a secure room and either: <ul style="list-style-type: none"> Locked in a secure cabinet and/or sealed in tamper-evident packaging at all times, or Under the continuous supervision of at least two authorized people at all times. 	
	<Report Findings Here>	
6G-4.9 Distributed functionality of the KIF that is used for generation and transfer of keys must communicate via mutually authenticated channels. All key transfers between distributed KIF functions must meet the requirements of 6C.		
6G-4.9.1 The KIF must ensure that keys are transmitted between KIF components in accordance with 6C.		
6G-4.9.1.a Examine documented procedures for key conveyance or transmittal to verify that keys used between KIF components are addressed in accordance with applicable criteria in 6C.	Documented procedures reviewed:	<Report Findings Here>
	6G-4.9.1.b Interview responsible personnel and observe conveyance processes to verify that the documented procedures are followed for key conveyance or transmittal for keys used between KIF components.	
	Describe how the conveyance processes observed verified that the documented procedures are followed for key conveyance or transmittal for keys used between KIF components:	
<Report Findings Here>		
6G-4.9.2 The KIF must implement mutually authenticated channels for communication between distributed KIF functions—e.g., between a host used to generate keys and a host used to distribute keys.		
6G-4.9.2 Examine documented procedures to confirm they specify the establishment of a channel for mutual authentication of the sending and receiving devices.	Documented procedures reviewed:	<Report Findings Here>
6G-4.9.3 The KIF must ensure that injection of enciphered secret or private keys into POI devices meets the requirements of 6D.		
6G-4.9.4 The channel for mutual authentication is established using the requirements of 6D.		
6G-4.9.4.a Examine documented procedures for key loading to hosts and POI devices to verify that they are in accordance with applicable criteria in 6D.	Documented procedures reviewed:	<Report Findings Here>

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Requirements and Testing Procedures		Reporting Instructions and Assessor’s Findings	
6G-4.9.4.a Interview responsible personnel and observe key-loading processes to verify that the documented procedures are followed for key conveyance or transmittal for keys used between KIF components.	Responsible personnel interviewed:	<Report Findings Here>	
	Identify the P2PE Assessor who confirms that the documented procedures are followed for key conveyance or transmittal for keys used between KIF components:	<Report Findings Here>	
6G-4.9.5 The KIF must implement a mutually authenticated channel for establishment of enciphered secret or private keys between POI devices and an HSM at the KIF.			
6G-4.9.5 Examine documented procedures to confirm they specify the establishment of a mutually authenticated channel for establishment of enciphered secret or private keys between sending and receiving devices— e.g., POI devices and HSMs.	Documented procedures reviewed:	<Report Findings Here>	
6G-4.9.6 Mutual authentication of the sending and receiving devices must be performed. <ul style="list-style-type: none"> • KIFs must validate authentication credentials of a POI prior to any key transport, exchange, or establishment with that device. • POI devices must validate authentication credentials of KDHS prior to any key transport, exchange, or establishment with that device. • When a KLD is used as an intermediate device to establish keys between POIs and a KIF HSM it must not be possible to insert an unauthorized SCD into the flow without detection. 			
6G-4.9.6 Interview responsible personnel and observe processes for establishment of enciphered secret or private keys between sending and receiving devices to verify: <ul style="list-style-type: none"> • KIFs validate authentication credentials of a POI prior to any key transport, exchange, or establishment with that device. • POI devices validate authentication credentials of KLDs prior to any key transport, exchange, or establishment with that device. • When a KLD is used as an intermediate device to establish keys between POIs and a KIF HSM, it is not possible to insert an unauthorized SCD into the flow without detection 	Responsible personnel interviewed:	<Report Findings Here>	
	Describe how the processes observed verified that:		
	<ul style="list-style-type: none"> • KIFs validate authentication credentials of a POI prior to any key transport, exchange, or establishment with that device. • POI devices validate authentication credentials of KLDs prior to any key transport, exchange, or establishment with that device. • When a KLD is used as an intermediate device to establish keys between POIs and a KIF HSM, it is not possible to insert an unauthorized SCD into the flow without detection 	<ul style="list-style-type: none"> • KIFs validate authentication credentials of a POI prior to any key transport, exchange, or establishment with that device. • POI devices validate authentication credentials of KLDs prior to any key transport, exchange, or establishment with that device. • When a KLD is used as an intermediate device to establish keys between POIs and a KIF HSM, it is not possible to insert an unauthorized SCD into the flow without detection 	
6G-4.9.7 Mechanisms must exist to prevent a non-authorized host from injecting keys into POIs or an unauthorized POI from establishing a key with a legitimate KIF component.			
6G-4.9.7 Examine documented procedures to confirm they define mechanisms to prevent an unauthorized host from performing key transport, key exchange, or key establishment with POIs.	Documented procedures reviewed:	<Report Findings Here>	
6G-4.10 The KIF must implement a physically secure area (secure room) for key injection where any secret or private keys or their components/shares appear in the clear outside of an SCD. The secure room for key injection must include the following:			

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings
6G-4.10.1 The secure area must have walls made of solid materials. In addition, if the solid walls do not extend from the real floor to the real ceiling, the secure area must have extended walls from the real floor to the real ceiling using sheetrock or wire mesh.	
6G-4.10.1 Inspect the secure area designated for key injection to verify that it is constructed with extended walls from the real floor to the real ceiling using sheetrock or wire mesh.	Identify the P2PE Assessor who confirms that the secure area designated for key injections is constructed with extended walls from the real floor to the real ceiling using sheetrock or wire mesh: <Report Findings Here>
6G-4.10.2 Any windows into the secure room must be locked and protected by alarmed sensors.	
6G-4.10.2.a Observe all windows in the secure room to verify they are locked and protected by alarmed sensors.	Identify the P2PE Assessor who confirms all windows in the secure room are locked and protected by alarmed sensors: <Report Findings Here>
6G-4.10.2.b Examine configuration of window sensors to verify that the alarm mechanism is active.	Identify the P2PE Assessor who confirms the configuration of window sensors verified that the alarm mechanism is active: <Report Findings Here>
6G-4.10.3 Any windows must be covered, rendered opaque, or positioned to prevent unauthorized observation of the secure area.	
6G-4.10.3 Observe all windows in the secure room to verify they are covered, rendered opaque, or positioned to prevent unauthorized observation of the secure room.	Describe how the observation of windows and glass walls in the secure areas verified that they are covered, rendered opaque, or positioned to prevent unauthorized observation of the secure area: <Report Findings Here>
6G-4.10.4 A solid-core door or a steel door must be installed to ensure that door hinges cannot be removed from outside the room.	
6G-4.10.4 Inspect the secure area to verify that it is only accessed through a solid-core or a steel door, with door hinges that cannot be removed from outside the room.	Identify the P2PE Assessor who confirms that the secure area is only accessed through a solid-core or a steel door, with door hinges that cannot be removed from outside of the room: <Report Findings Here>
6G-4.10.5 An electronic access control system (e.g., badge and/or biometrics) must be in place that enforces: <ul style="list-style-type: none"> • Dual-access requirements for entry into the secure area, and • Anti-pass-back requirements. 	

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures	Reporting Instructions and Assessor’s Findings
6G-4.10.5 Observe authorized personnel entering the secure area to verify that a badge-control system is in place that enforces the following requirements: <ul style="list-style-type: none"> • Dual-access for entry to the secure area • Anti-pass-back 	Describe how the observation of authorized personnel entering the secure area verified that a badge-control system is in place that enforces the following requirements: <ul style="list-style-type: none"> • Dual-access for entry to the secure area • Anti-pass-back
	<Report Findings Here>
6G-4.10.6 The badge-control system must support generation of an alarm when one person remains alone in the secure area for more than 30 seconds. <i>Note: Examples of alarm-generation mechanisms include but are not limited to motion detectors, login/logout controls, biometrics, badge sensors, etc.</i>	
6G-4.10.6 Examine alarm mechanisms and interview alarm-response personnel to verify that the badge-control system supports generation of an alarm when one person remains alone in the secure area for more than 30 seconds.	Alarm-response personnel interviewed: <Report Findings Here>
	Describe how the alarm mechanisms observed verified that the badge-control system supports generation of an alarm when one person remains alone in the secure area for more than 30 seconds:
	<Report Findings Here>
6G-4.10.7 CCTV cameras must record all activity, including recording events during dark periods through the use of infrared CCTV cameras or automatic activation of floodlights in case of any detected activity. This recording may be motion-activated. The recording must continue for at least a minute after the last pixel of activity subsides.	
6G-4.10.7 Inspect CCTV configuration and review a sample of recordings to verify that CCTV monitoring is in place on a 24/7 basis.	Sample of CCTV recordings reviewed: <Report Findings Here>
	Describe how the CCTV configurations observed verified that CCTV monitoring is in places on a 24/7 basis:
	<Report Findings Here>
6G-4.10.8 Monitoring must be supported on a continuous (24/7) basis such that alarms can be resolved by authorized personnel.	
6G-4.10.8 Inspect configuration of monitoring systems and interview monitoring personnel to verify that monitoring is supported on a continuous (24/7) basis and alarms can be resolved by authorized personnel.	Monitoring personnel interviewed: <Report Findings Here>
	Describe how the observed configuration of monitoring systems verified that monitoring is supported on a continuous (24/7) basis and alarms can be resolved by authorized personnel:
	<Report Findings Here>
6G-4.10.9 The CCTV server and digital storage must be secured in a separate secure area that is not accessible to personnel who have access to the key-injection area.	

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures		Reporting Instructions and Assessor's Findings
6G-4.10.9.a Inspect location of the CCTV server and digital-storage to verify they are located in a secure area that is separate from the key-injection area.	Identify the P2PE Assessor who confirms the location of the CCTV server and digital-storage are located in a secure area that is separate from the key-injection area:	<Report Findings Here>
6G-4.10.9.b Inspect access-control configurations for the CCTV server/storage area and the key-injection area to identify all personnel who have access to each area. Compare access lists to verify that personnel with access to the key-injection area do not have access to the CCTV server/storage area.	Identify the P2PE Assessor who identified all personnel with access to the CCTV server/storage area and the key-injection area, and who confirms that personnel with access to the key-injection area do not have access to the CCTV server/storage area:	<Report Findings Here>
6G-4.10.10 The CCTV cameras must be positioned to monitor: <ul style="list-style-type: none"> • The entrance door, • SCDs, both pre and post key injection, • Any safes that are present, and • The equipment used for key injection. 		
6G-4.10.10 Inspect CCTV positioning and review a sample of recordings to verify that CCTV cameras are positioned to monitor: <ul style="list-style-type: none"> • The entrance door, • SCDs, both pre and post key injection, • Any safes that are present, and • The equipment used for key injection. 	Sample of recordings reviewed:	<Report Findings Here>
	Identify the P2PE Assessor who confirms that CCTV cameras are positioned to monitor the entrance door, SCDs (both pre and post key injection), any safes that are present, and the equipment used for key injection:	<Report Findings Here>
6G-4.10.11 CCTV cameras must be positioned so they do not monitor any combination locks, PIN pads, or keyboards used to enter passwords or other authentication credentials.		
6G-4.10.11 Inspect CCTV positioning and review a sample of recordings to verify that CCTV cameras do not monitor any combination locks, PIN pads, or keyboards used to enter passwords or other authentication credentials.	Sample of recordings reviewed:	<Report Findings Here>
	Identify the P2PE Assessor who confirms that CCTV cameras do not monitor any combination locks, PIN pads, or keyboards used to enter passwords or other authentication credentials:	<Report Findings Here>
6G-5.1 Written procedures must exist, and all affected parties must be aware of those procedures. Records must be maintained of the tests and inspections performed by key-injection facilities on PIN-processing devices before they are placed into service, as well as devices being decommissioned.		

Domain 6: Normative Annex B, Key-Injection Facilities – Reporting

Requirements and Testing Procedures			Reporting Instructions and Assessor’s Findings	
6G-5.1.a Examine documented procedures/processes and interview responsible personnel to verify that all affected parties are aware of required processes and are provided suitable guidance on procedures for devices placed into service, initialized, deployed, used, and decommissioned,	Documented procedures reviewed:	<Report Findings Here>		
	Responsible personnel interviewed:	<Report Findings Here>		
6G-5.1.b Verify that written records exist for the tests and inspections performed on PIN-processing devices before they are placed into service, as well as devices being decommissioned.	Documented records reviewed:	<Report Findings Here>		
6I-1.1 Track status of key-management services for POIs and HSMs and provide reports to solution provider annually and upon significant changes, including at least the following: <ul style="list-style-type: none"> • Types/models of POIs and/or HSMs for which keys have been injected • For each type/model of POI and/or HSM: <ul style="list-style-type: none"> – Number of devices – Type of key(s) injected – Key-distribution method • Details of any known or suspected compromised keys, per 6F-2.1 <p><i>Note that adding, changing, or removing POI device and/or HSM types, or critical key management methods may require adherence to PCI SSC’s process for P2PE Designated Changes to Solutions. Please refer to the P2PE Program Guide for details about obligations when adding or removing elements of a P2PE solution.</i></p>				
6I-1.1.a Review component provider’s documented procedures for providing required reporting to applicable solution providers and interview responsible component-provider personnel to confirm that the following processes are documented and implemented: <ul style="list-style-type: none"> • Types/models of POIs and/or HSMs for which keys have been injected • For each type/model of POI and/or HSM: <ul style="list-style-type: none"> – Number of devices – Type of key injected – Key-distribution method • Details of any known or suspected compromised keys, per 6F-2.1 	Documented component provider procedures reviewed:	<Report Findings Here>		
	Responsible component-provider personnel interviewed:	<Report Findings Here>		
6I-1.1.b Observe reports provided to applicable solution providers annually and upon significant changes to the solution, and confirm they include at least the following: <ul style="list-style-type: none"> • Types/models of POIs for which keys have been injected • For each type/model of POI: <ul style="list-style-type: none"> – Number of POI devices – Type of key injected – Key-distribution method • Details of any known or suspected compromised keys, per 6F-2.1 	Solution provider reports reviewed:	<Report Findings Here>		