

A Deep Dive into the New 4.0 DSS Requirements that are Applicable Immediately

Presented by: Viviana Wesley, CISM, PCI QSA, ISO 27001 Auditor

About the Presenter

Viviana Wesley

- Principal Consultant with HALOCK Security Labs
- CISM, PCI QSA, ISO 27001 Auditor
- HALOCK's <u>PCI DSS</u> Subject Matter Expert and Solution Architect
- Serves as an expert witness for State Offices of Attorney General and Multidistrict litigation matters
- 23+ years of practical experience within Information Technology
- 13+ years specializing in Information Security
- University of Northern Iowa Bachelor of Arts in Computer Science



HALOCK[®]





14 Requirements with Immediate Applicability

Review of Requirements: What, Purpose, Impact Process

Why Now & Questions

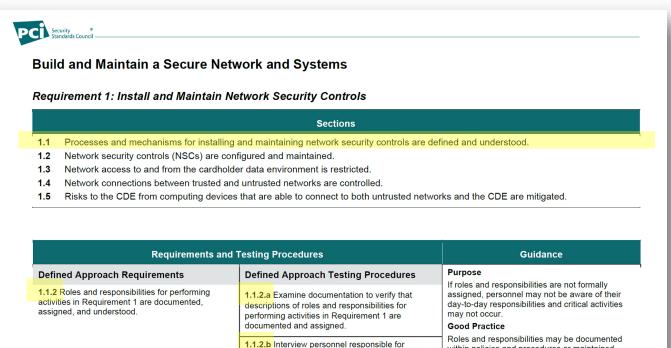


14 New PCI DSS Requirements

Requirement # PCI DSS v4.0 REQUIREMENT 1.1.2 Roles and responsibilities for performing activities in Requirement 1 are documented, assigned, and understood. 2.1.2 Roles and responsibilities for performing activities in Requirement 2 are documented, assigned, and understood. 3.1.2 Roles and responsibilities for performing activities in Requirement 3 are documented, assigned, and understood. 4.1.2 Roles and responsibilities for performing activities in Requirement 4 are documented, assigned, and understood. 5.1.2 Roles and responsibilities for performing activities in Requirement 5 are documented, assigned, and understood. 6.1.2 Roles and responsibilities for performing activities in Requirement 6 are documented, assigned, and understood. 7.1.2 Roles and responsibilities for performing activities in Requirement 7 are documented, assigned, and understood. 8.1.2 Roles and responsibilities for performing activities in Requirement 8 are documented, assigned, and understood. 9.1.2 Roles and responsibilities for performing activities in Requirement 9 are documented, assigned, and understood. 10.1.2 Roles and responsibilities for performing activities in Requirement 10 are documented, assigned, and understood. 11.1.2 Roles and responsibilities for performing activities in Requirement 11 are documented, assigned, and understood. 12.3.2 A targeted risk analysis is performed for each PCI DSS requirement that the entity meets with the customized approach. 12.5.2 PCI DSS scope is documented and confirmed by the entity at least once every 12 months and upon significant change to the in-scope environment. 12.9.2 Additional requirement for service providers only: TPSPs support their customers' requests for information to meet Requirements 12.8.4 and 12.8.5.



Requirement 1.1.2



within policies and procedures or maintained performing activities in Requirement 1 to verify that within separate documents. roles and responsibilities are assigned as As part of communicating roles and documented and are understood. responsibilities, entities can consider having personnel acknowledge their acceptance and understanding of their assigned roles and responsibilities. **Customized Approach Objective** Examples Day-to-day responsibilities for performing all the A method to document roles and responsibilities activities in Requirement 1 are allocated. Personnel is a responsibility assignment matrix that includes are accountable for successful, continuous who is responsible, accountable, consulted, and operation of these requirements. informed (also called a RACI matrix).

WHATRoles and Responsibilities for
Network Security Controls (NSC) are
documented, assigned, and
maintained.WHATIf responsibilities are not formally
assigned, personnel may not be
aware of their day-to-day
responsibilities and processes may
break down.

IMPACT

PROCESS

If this was not previously documented, it will need to be formally stated in a policy and/or procedure. RACI matrix can be used.

Organizations will need to ensure that these responsibilities are assigned and communicated to staff. Consider having employees acknowledge responsibilities.

HALOCK

Requirement 2.1.2

PCI Security * Standards Counci

Requirement 2: Apply Secure Configurations to All System Components

Sections

- 2.1 Processes and mechanisms for applying secure configurations to all system components are defined and understood.
- 2.2 System components are configured and managed securely.
- **2.3** Wireless environments are configured and managed securely.

Overview

Malicious individuals, both external and internal to an entity, often use default passwords and other vendor default settings to compromise systems. These passwords and settings are well known and are easily determined via public information.

Applying secure configurations to system components reduces the means available to an attacker to compromise the system. Changing default passwords, removing unnecessary software, functions, and accounts, and disabling or removing unnecessary services all help to reduce the potential attack surface.

Refer to Appendix G for definitions of PCI DSS terms.

Requirements and ⁻	Guidance		
Defined Approach Requirements	Defined Approach Testing Procedures	Purpose	
2.1.2 Roles and responsibilities for performing activities in Requirement 2 are documented, assigned, and understood.	2.1.2.a Examine documentation to verify that descriptions of roles and responsibilities for performing activities in Requirement 2 are documented and assigned.	If roles and responsibilities are not formally assigned, personnel may not be aware of their day-to-day responsibilities and critical activities may not occur. Good Practice	
	2.1.2.b Interview personnel with responsibility for performing activities in Requirement 2 to verify that roles and responsibilities are assigned as	Roles and responsibilities may be documented within policies and procedures or maintained within separate documents.	
Customized Approach Objective Day-to-day responsibilities for performing all the activities in Requirement 2 are allocated. Personnel are accountable for successful, continuous operation of these requirements.	documented and are understood.	As part of communicating roles and responsibilities, entities can consider having personnel acknowledge their acceptance and understanding of their assigned roles and responsibilities.	
		Examples	
		A method to document roles and responsibilities is a responsibility assignment matrix that includes who is responsible, accountable, consulted, and informed (also called a RACI matrix).	

Roles and Responsibilities for applying secure configurations to all system components are documented, assigned, and maintained.

If responsibilities are not formally assigned, personnel may not be aware of their day-to-day responsibilities and processes may break down.

PURPOSE

IMPACT

PROCESS

WHAT

If this was not previously documented, it will need to be formally stated in a policy and/or procedure. RACI matrix can be used.

Organizations will need to ensure that these responsibilities are assigned and communicated to staff. Consider having employees acknowledge responsibilities.

Requirement 3.1.2



Protect Account Data

Requirement 3: Protect Stored Account Data

Sections

- 3.1 Processes and mechanisms for protecting stored account data are defined and understood.
- **3.2** Storage of account data is kept to a minimum.
- 3.3 Sensitive authentication data (SAD) is not stored after authorization.
- 3.4 Access to displays of full PAN and ability to copy cardholder data are restricted.
- **3.5** Primary account number (PAN) is secured wherever it is stored.
- 3.6 Cryptographic keys used to protect stored account data are secure
- 3.7 Where cryptography is used to protect stored account data, key management processes and procedures covering all aspects of the k

Requirements and 1	Guidance			
Defined Approach Requirements	Defined Approach Testing Procedures	Purpose		
3.1.2 Roles and responsibilities for performing activities in Requirement 3 are documented, assigned, and understood.	3.1.2.a Examine documentation to verify that descriptions of roles and responsibilities performing activities in Requirement 3 are documented and assigned.	If roles and responsibilities are not formally assigned, personnel may not be aware of their day-to-day responsibilities, and critical activities may not occur. Good Practice		
	3.1.2.b Interview personnel with responsibility for performing activities in Requirement 3 to verify that	Roles and responsibilities may be documented within policies and procedures or maintained within separate documents.		
Customized Approach Objective Day-to-day responsibilities for performing all the activities in Requirement 3 are allocated. Personnel are accountable for successful, continuous	roles and responsibilities are assigned as documented and are understood.	As part of communicating roles and responsibilities, entities can consider having personnel acknowledge their acceptance and understanding of their assigned roles and responsibilities.		
operation of these requirements.		Examples		
		A method to document roles and responsibilities is a responsibility assignment matrix that includes who is responsible, accountable, consulted, and informed (also called a RACI matrix).		

WHAT

Roles and Responsibilities for protecting stored cardholder data are documented, assigned, and maintained.

If responsibilities are not formally assigned, personnel may not be aware of their day-to-day responsibilities and processes may break down.

PURPOSE

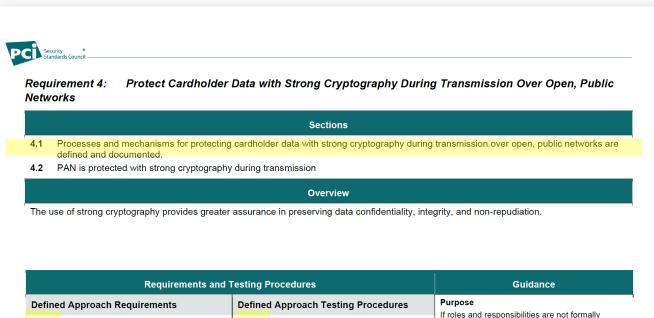
IMPACT

PROCESS

If this was not previously documented, it will need to be formally stated in a policy and/or procedure. RACI matrix can be used.

Organizations will need to ensure that these responsibilities are assigned and communicated to staff. Consider having employees acknowledge responsibilities.

Requirement 4.1.2



If roles and responsibilities are not formally 4.1.2.a Examine documentation to verify that 4.1.2 Roles and responsibilities for performing assigned, personnel may not be aware of their activities in Requirement 4 are documented, descriptions of roles and responsibilities for day-to-day responsibilities and critical activities assigned, and understood. performing activities in Requirement 4 are may not occur documented and assigned. Good Practice Roles and responsibilities may be documented 4.1.2.b Interview personnel with responsibility for within policies and procedures or maintained performing activities in Requirement 4 to verify that within separate documents roles and responsibilities are assigned as documented and are understood. As part of communicating roles and responsibilities, entities can consider having personnel acknowledge their acceptance and understanding of their assigned roles and responsibilities. Customized Approach Objective Examples Day-to-day responsibilities for performing all the A method to document roles and responsibilities activities in Requirement 4 are allocated. Personnel is a responsibility assignment matrix that includes are accountable for successful, continuous who is responsible, accountable, consulted, and operation of these requirements. informed (also called a RACI matrix).

WHAT

Roles and Responsibilities for protecting cardholder data during transmission over open public networks are documented, assigned, and maintained.

If responsibilities are not formally assigned, personnel may not be aware of their day-to-day responsibilities and processes may break down.

PURPOSE

IMPACT

PROCESS

If this was not previously documented, it will need to be formally stated in a policy and/or procedure. RACI matrix can be used.

Organizations will need to ensure that these responsibilities are assigned and communicated to staff. Consider having employees acknowledge responsibilities.

Requirement 5.1.2

PCD Security * Standards Council

Maintain a Vulnerability Management Program

Requirement 5: Protect All Systems and Networks from Malicious Software

Sections

- 5.1 Processes and mechanisms for protecting all systems and networks from malicious software are defined and understood.
- 5.2 Malicious software (malware) is prevented, or detected and addressed.
- **5.3** Anti-malware mechanisms and processes are active, maintained, and monitored.
- 5.4 Anti-phishing mechanisms protect users against phishing attacks.

Requirements and 1	Guidance			
Defined Approach Requirements	Defined Approach Testing Procedures	Purpose		
5.1.2 Roles and responsibilities for performing activities in Requirement 5 are documented, assigned, and understood.	5.1.2.a Examine documentation to verify that descriptions of roles and responsibilities for performing activities in Requirement 5 are documented and assigned.	If roles and responsibilities are not formally assigned, networks and systems may not be properly protected from malware. Good Practice Roles and responsibilities may be documented within policies and procedures or maintained within separate documents.		
	5.1.2.b Interview personnel with responsibility for performing activities in Requirement 5 to verify that			
Customized Approach Objective	roles and responsibilities are assigned as documented and are understood.	As part of communicating roles and responsibilities, entities can consider having personnel acknowledge their acceptance and		
Day-to-day responsibilities for performing all the activities in Requirement 5 are allocated. Personnel		understanding of their assigned roles and responsibilities.		
re accountable for successful, continuous		Examples		
operation of these requirements.		A method to document roles and responsibilities is a responsibility assignment matrix that includes who is responsible, accountable, consulted, and informed (also called a RACI matrix).		

WHAT

Roles and Responsibilities for protecting components from malicious software are documented, assigned, and maintained.

If responsibilities are not formally assigned, personnel may not be aware of their day-to-day responsibilities and processes may break down.

PURPOSE

If this was not previously documented, it will need to be formally stated in a policy and/or procedure. RACI matrix can be used.

IMPACT

PROCESS

Organizations will need to ensure that these responsibilities are assigned and communicated to staff. Consider having employees acknowledge responsibilities.

Requirement 6.1.2

PCI Security * Standards Council

Requirement 6: Develop and Maintain Secure Systems and Software

Sections

- **6.1** Processes and mechanisms for developing and maintaining secure systems and software are defined and understood.
- 6.2 Bespoke and custom software are developed securely.
- **6.3** Security vulnerabilities are identified and addressed.
- **6.4** Public-facing web applications are protected against attacks.
- 6.5 Changes to all system components are managed securely

Requirements and Testing Procedures		Guidance		
Defined Approach Requirements	Defined Approach Testing Procedures	Purpose		
6.1.2 Roles and responsibilities for performing activities in Requirement 6 are documented, assigned, and understood.	6.1.2.a Examine documentation to verify that descriptions of roles and responsibilities for performing activities in Requirement 6 are documented and assigned.	If roles and responsibilities are not formally assigned, systems will not be securely maintained, and their security level will be reduced. Good Practice Roles and responsibilities may be documented within policies and procedures or maintained within separate documents.		
Customized Approach Objective	6.1.2.b Interview personnel responsible for performing activities in Requirement 6 to verify that roles and responsibilities are assigned as			
Day-to-day responsibilities for performing all the activities in Requirement 6 are allocated. Personnel are accountable for successful, continuous operation of these requirements.	documented and are understood.	As part of communicating roles and responsibilities, entities can consider having personnel acknowledge their acceptance and understanding of their assigned roles and responsibilities.		
		Examples		
		A method to document roles and responsibilities is a responsibility assignment matrix that includes who is responsible, accountable, consulted, and informed (also called a RACI matrix).		

WHAT

Roles and Responsibilities for developing and maintaining secure systems and software are documented, assigned, and maintained.

If responsibilities are not formally assigned, personnel may not be aware of their day-to-day responsibilities and processes may break down.

PURPOSE

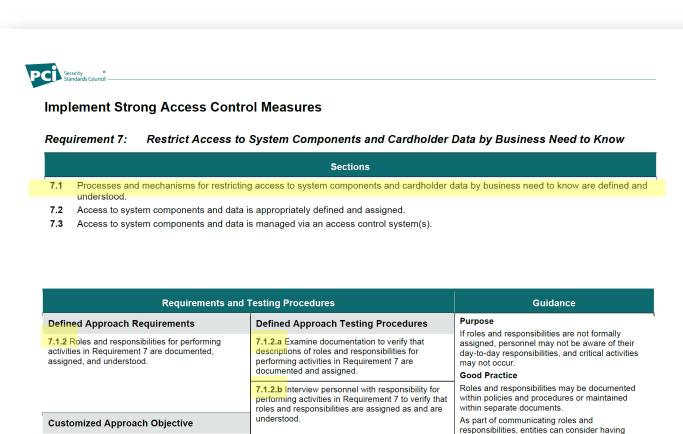
IMPACT

PROCESS

If this was not previously documented, it will need to be formally stated in a policy and/or procedure. RACI matrix can be used.

Organizations will need to ensure that these responsibilities are assigned and communicated to staff. Consider having employees acknowledge responsibilities.

Requirement 7.1.2



Roles and Responsibilities for strong access control mechanisms are documented, assigned, and maintained.

If responsibilities are not formally assigned, personnel may not be aware of their day-to-day responsibilities and processes may break down.

PURPOSE

IMPACT

PROCESS

WHAT

If this was not previously documented, it will need to be formally stated in a policy and/or procedure. RACI matrix can be used.

Organizations will need to ensure that these responsibilities are assigned and communicated to staff. Consider having employees acknowledge responsibilities.

HALOCK°

Day-to-day responsibilities for performing all the activities in Requirement 7 are allocated. Personnel

are accountable for successful, continuous

operation of these requirements.

personnel acknowledge their acceptance and

A method to document roles and responsibilities is a responsibility assignment matrix that includes

who is responsible, accountable, consulted, and informed (also called a RACI matrix).

understanding of their assigned roles and

responsibilities.

Examples

Requirement 8.1.2

Requirement 8: Identify Users and Authenticate Access to System Components

Sections

- 8.1 Processes and mechanisms for identifying users and authenticating access to system components are defined and understood.
- 8.2 User identification and related accounts for users and administrators are strictly managed throughout an account's lifecycle.
- 8.3 Strong authentication for users and administrators is established and managed.
- 8.4 Multi-factor authentication (MFA) is implemented to secure access into the CDE
- 8.5 Multi-factor authentication (MFA) systems are configured to prevent misuse.
- **8.6** Use of application and system accounts and associated authentication factors is strictly managed.

Requirements and [•]	Requirements and Testing Procedures			
Defined Approach Requirements	Defined Approach Testing Procedures	Purpose If roles and responsibilities are not formally		
8.1.2 Roles and responsibilities for performing activities in Requirement 8 are documented, assigned, and understood.	8.1.2.a Examine documentation to verify that descriptions of roles and responsibilities for performing activities in Requirement 8 are documented and assigned.	assigned, personnel may not be aware of their day-to-day responsibilities and critical activities may not occur. Good Practice Roles and responsibilities may be documented within policies and procedures or maintained within separate documents.		
	8.1.2.b Interview personnel with responsibility for performing activities in Requirement 8 to verify that roles and responsibilities are assigned as			
Customized Approach Objective Day-to-day responsibilities for performing all the activities in Requirement 8 are allocated. Personnel are accountable for successful, continuous	documented and are understood.	As part of communicating roles and responsibilities, entities can consider having personnel acknowledge their acceptance and understanding of their assigned roles and responsibilities.		
operation of these requirements.		Examples A method to document roles and responsibilities is a responsibility assignment matrix that includes who is responsible, accountable, consulted, and informed (also called a RACI matrix).		

Roles and Responsibilities for strong authentication mechanisms are documented, assigned, and maintained.

If responsibilities are not formally assigned, personnel may not be aware of their day-to-day responsibilities and processes may break down.

PURPOSE

IMPACT

PROCESS

WHAT

If this was not previously documented, it will need to be formally stated in a policy and/or procedure. RACI matrix can be used.

Organizations will need to ensure that these responsibilities are assigned and communicated to staff. Consider having employees acknowledge responsibilities.

HALOCK°

PCI Security Standards Court

Requirement 9.1.2

Requirement 9: Restrict Physical Access to Cardholder Data

Sections

- 9.1 Processes and mechanisms for restricting physical access to cardholder data are defined and understood.
- 9.2 Physical access controls manage entry into facilities and systems containing cardholder data.
- **9.3** Physical access for personnel and visitors is authorized and managed.
- 9.4 Media with cardholder data is securely stored, accessed, distributed, and destroyed.
- **9.5** Point of interaction (POI) devices are protected from tampering and unauthorized substitution.

Requirements and T	Guidance				
Defined Approach Requirements	Defined Approach Testing Procedures	Purpose			
9.1.2 Roles and responsibilities for performing activities in Requirement 9 are documented, assigned, and understood.	9.1.2.a Examine documentation to verify that descriptions of roles and responsibilities for performing activities in Requirement 9 are	If roles and responsibilities are not formally assigned, personnel may not be aware of their day-to-day responsibilities, and critical activities may not occur.			
	documented and assigned.	Good Practice			
	9.1.2.b Interview personnel with responsibility for performing activities in Requirement 9 to verify that roles and responsibilities are assigned as	Roles and responsibilities may be documented within policies and procedures or maintained within separate documents.			
Customized Approach Objective	documented and are understood	As part of communicating roles and			
Day-to-day responsibilities for performing all the activities in Requirement 9 are allocated. Personnel are accountable for successful, continuous operation of these requirements.		responsibilities, entities can consider having personnel acknowledge their acceptance and understanding of their assigned roles and responsibilities.			
		A method to document roles and responsibilities is a responsibility assignment matrix that includes who is responsible, accountable, consulted, and informed (also called a RACI matrix).			

WHAT

Roles and Responsibilities for physical access controls are documented, assigned, and maintained.

If responsibilities are not formally assigned, personnel may not be aware of their day-to-day responsibilities and processes may break down.

PURPOSE

IMPACT

PROCESS

If this was not previously documented, it will need to be formally stated in a policy and/or procedure. RACI matrix can be used.

Organizations will need to ensure that these responsibilities are assigned and communicated to staff. Consider having employees acknowledge responsibilities.

Requirement 10.1.2

Security Standards Council -

Regularly Monitor and Test Networks

Requirement 10: Log and Monitor All Access to System Components and Cardholder Data

Sections

- **10.1** Processes and mechanisms for logging and monitoring all access to system components and cardholder data are defined and documented.
- 10.2 Audit logs are implemented to support the detection of anomalies and suspicious activity, and the forensic analysis of events.
- **10.3** Audit logs are protected from destruction and unauthorized modifications.
- **10.4** Audit logs are reviewed to identify anomalies or suspicious activity.
- **10.5** Audit log history is retained and available for analysis.
- **10.6** Time-synchronization mechanisms support consistent time settings across all systems.
- **10.7** Failures of critical security control systems are detected, reported, and responded to promptly.

Requirements and	Guidance			
Defined Approach Requirements	Defined Approach Testing Procedures	Purpose		
10.1.2 Roles and responsibilities for performing activities in Requirement 10 are documented, assigned, and understood.	10.1.2.a Examine documentation to verify that descriptions of roles and responsibilities for performing activities in Requirement 10 are documented and assigned.	If roles and responsibilities are not formally assigned, personnel may not be aware of their day-to-day responsibilities and critical activities may not occur. Good Practice Roles and responsibilities may be documented within policies and procedures or maintained within separate documents.		
Customized Approach Objective	10.1.2.b Interview personnel with responsibility for performing activities in Requirement 10 to verify that roles and responsibilities are assigned as			
Day-to-day responsibilities for performing all the activities in Requirement 10 are allocated. Personnel are accountable for successful, continuous operation of these requirements.	that roles and responsibilities are assigned as defined and are understood.	As part of communicating roles and responsibilities, entities can consider having personnel acknowledge their acceptance and understanding of their assigned roles and responsibilities.		
		Examples		
		A method to document roles and responsibilities is a responsibility assignment matrix that includes who is responsible, accountable, consulted, and informed (also called a RACI matrix).		

WHAT

Roles and Responsibilities for logging and monitoring are documented, assigned, and maintained.

If responsibilities are not formally assigned, personnel may not be aware of their day-to-day responsibilities and processes may break down.

PURPOSE

If this was not previously documented, it will need to be formally stated in a policy and/or procedure. RACI matrix can be used.

IMPACT

PROCESS

Organizations will need to ensure that these responsibilities are assigned and communicated to staff. Consider having employees acknowledge responsibilities.

Requirement 11.1.2

Requirement 11: Test Security of Systems and Networks Regularly

Sections

11.1 Processes and mechanisms for regularly testing security of systems and networks are defined and understood.

- 11.2 Wireless access points are identified and monitored, and unauthorized wireless access points are addressed
- **11.3** External and internal vulnerabilities are regularly identified, prioritized, and addressed.
- 11.4 External and internal penetration testing is regularly performed, and exploitable vulnerabilities and security weaknesses are corrected.
- **11.5** Network intrusions and unexpected file changes are detected and responded to.
- 11.6 Unauthorized changes on payment pages are detected and responded to

Requirements and 1	Guidance			
Defined Approach Requirements	Defined Approach Testing Procedures	Purpose		
11.1.2 Roles and responsibilities for performing activities in Requirement 11 are documented, assigned, and understood.	11.1.2.a Examine documentation to verify that descriptions of roles and responsibilities for performing activities in Requirement 11 are documented and assigned.	If roles and responsibilities are not formally assigned, personnel may not be aware of their day-to-day responsibilities and critical activities may not occur. Good Practice		
Customized Approach Objective	11.1.2.b Interview personnel with responsibility for performing activities in Requirement 11 to verify that roles and responsibilities are assigned as	Roles and responsibilities may be documented within policies and procedures or maintained within separate documents.		
Day-to-day responsibilities for performing all the activities in Requirement 11 are allocated. Personnel are accountable for successful, continuous operation of these requirements.	documented and are understood.	As part of communicating roles and responsibilities, entities can consider having personnel acknowledge their acceptance and understanding of their assigned roles and responsibilities.		
		Examples		
		A method to document roles and responsibilities is a responsibility assignment matrix that includes who is responsible, accountable, consulted, and informed (also called a RACI matrix).		

WHAT

Roles and Responsibilities for testing security of systems and networks are documented, assigned, and maintained.

If responsibilities are not formally assigned, personnel may not be aware of their day-to-day responsibilities and processes may break down.

PURPOSE

IMPACT

PROCESS

If this was not previously documented, it will need to be formally stated in a policy and/or procedure. RACI matrix can be used.

Organizations will need to ensure that these responsibilities are assigned and communicated to staff. Consider having employees acknowledge responsibilities.

PCI Security Standards Court

Requirement 12.3.2

PCI Security * Maintain an Information Security Policy Requirement 12: Support Information Security with Organizational Policies and Programs Sections 12.1 A comprehensive information security policy that governs and provides direction for protection of the entity's information assets is known and current. **12.2** Acceptable use policies for end-user technologies are defined and implemented. 12.3 Risks to the cardholder data environment are formally identified, evaluated, and managed. 12.4 PCI DSS compliance is managed. 12.5 PCLDSS scope is documented and validated **Requirements and Testing Procedures** Guidance Purpose **Defined Approach Requirements Defined Approach Testing Procedures** A risk analysis following a repeatable and robust **12.3.2** A targeted risk analysis is performed for each 12.3.2 Examine the documented targeted riskmethodology enables an entity to meet the PCI DSS requirement that the entity meets with the analysis for each PCI DSS requirement that the customized approach objective. customized approach, to include: entity meets with the customized approach to verify Definitions that documentation for each requirement exists Documented evidence detailing each element The customized approach to meeting a PCI DSS and is in accordance with all elements specified in specified in Appendix D: Customized Approach requirement allows entities to define the controls this requirement. (including, at a minimum, a controls matrix and used to meet a given requirement's stated risk analysis). Customized Approach Objective in a way that · Approval of documented evidence by senior does not strictly follow the defined requirement. management These controls are expected to at least meet or exceed the security provided by the defined · Performance of the targeted analysis of risk at requirement and require extensive documentation least once every 12 months. by the entity using the customized approach. Further Information Customized Approach Objective See Appendix D: Customized Approach for This requirement is part of the customized approach instructions on how to document the required and must be met for those using the customized evidence for the customized approach approach. See Appendix E Sample Templates to Support Customized Approach for templates that entities Applicability Notes may use to document their customized controls. Note that while use of the templates is optional, This requirement only applies to entities using a the information specified within each template Customized Approach. must be documented and provided to each entity's assessor

WHAT

PURPOSE

IMPACT

PROCESS

If using the Customized Approach to validate a PCI DSS requirement, a Controls Matrix and Targeted Risk Analysis needs to be completed.

To add flexibility for risk mature organizations validating PCI DSS compliance. Explain what is implemented, how control(s) meet objectives, how control(s) provide at least an equivalent level of protection, and assurance of control effectiveness.

Only for Onsite Assessment Validations.

The flexibility that comes with using the Customized Approach also requires an additional documented process from the assessed entity.

The assessed entity completes a Controls Matrix and Targeted Risk Analysis, at least annually that is approved by management and provide to QSA. QSA then creates custom testing procedures to validate controls.

HALOCK°

Requirement 12.3.2 Details

Appendix D in PCI DSS v4.0 contains additional information and guidance on using the Customized Approach for validating compliance.

Appendix E in PCI DSS v4.0 provides a Sample Controls Matrix template and a Sample Targeted Risk Analysis template.

One for each requirement that is validated with the Customized Approach.

1) Identify PCI DSS requirement and control objective (both within the PCI DSS) as seen below.



2) Provide details of control(s) – the What, Where, When and Who.

Sample Controls Matrix Template for PCI DSS Requirements met via the Customized Approach To be completed by the entity being assessed				
Details of control(s)				
What is the implemented control(s)?	<entity and="" control="" describes="" does="" is="" it="" the="" what=""></entity>			
Where is the control(s) implemented?	<entity and="" components="" control="" facilities="" identifies="" implemented="" is="" locations="" managed="" of="" system="" where=""></entity>			
When is the control(s) performed?	<entity and="" at="" continuously="" control="" details="" example,="" for="" frequently="" how="" in="" intervals="" is="" nn="" or="" performed="" real="" run="" runs="" scheduled="" the="" time="" times="" to="" xx="" –=""></entity>			
Who has overall responsibility and accountability for the control(s)?	<entity accountability="" and="" control="" details="" for="" includes="" individual="" of="" personnel="" responsibility="" roles="" this="" with=""></entity>			
Who is involved in managing, maintaining, and monitoring the control(s)?	<entity and="" applicable,="" as="" control="" details="" includes="" individual="" maintain,="" manage,="" monitor="" of="" or="" personnel="" roles="" teams,="" that="" the=""></entity>			



- 3) Explain how control objective is being met.
- 4) Explain how assessed entity tested control to ensure control objectives are met.
- 5) Describe the results of the risk analysis of the control.
- 6) Describe how the control is maintained and the control's effectiveness is assured.

Sample Controls Matrix Template for PCI DSS Requirements met via the Customized Approach To be completed by the entity being assessed				
Entity describes how the implemented control(s) meets the stated <i>Customized Approach Objective</i> of the PCI DSS requirement.	<entity and="" approach="" control="" customized="" describes="" dss="" how="" meets="" objective="" of="" pci="" related="" requirement,="" results="" stated="" summarizes="" the=""></entity>			
Entity describes testing it performed and the results of that testing that demonstrates the control(s) meets the objective of the applicable requirement.	<entity and="" control="" describes="" dss="" it="" meets="" objective="" of="" pci="" performed="" prove="" related="" requirement,="" results="" stated="" summarizes="" testing="" the="" to=""></entity>			
Entity briefly describes the results of the separate targeted risk analysis it performed that explains the control(s) implemented and describes how the results verify the control(s) provides at least an equivalent level of protection as the defined approach for the applicable PCI DSS requirement. See the separate Targeted Risk Analysis Template for details on how to document this risk analysis.	<entity analysis="" briefly="" control,="" describes="" detailed="" for="" in="" is="" its="" of="" results="" risk="" separately="" targeted="" the="" this="" which=""></entity>			
Entity describes the measures it has implemented to ensure the control(s) is maintained and its effectiveness is assured on an ongoing basis. For example, how the entity monitors for control effectiveness, how control failures are detected and responded to, and the actions taken.	<entity and="" assured.="" control="" control's="" describes="" effectiveness="" ensures="" how="" is="" it="" maintained="" the=""></entity>			

Sample Targeted Risk Analysis for PCI DSS Requirements met via the Customized Approach To be completed by the entity being assessed					
Item	Details				
1. Identify the requirement					
1.1 Identify the PCI DSS requirement as written.	<entity identifies="" requirement="" the=""></entity>				
1.2 Identify the objective of the PCI DSS requirement as written.	<entity identifies="" objective="" of="" requirement="" the=""></entity>				
1.3 Describe the mischief that the requirement was designed to prevent	<entity describes="" mischief="" the=""> Entity describes the effect on its security if the objective is not successfully met by the entity.> Entity describes which security fundamentals would not be in place, or what a threat actor may be able to do if the objective is not successfully met by the entity.> </entity>				
2. Describe the proposed solution					
2.1 Customized control name/identifier	<entity as="" control="" controls="" customized="" documented="" identifies="" in="" matrix.="" the=""></entity>				
2.2 What parts of the requirement as written will change in the proposed solution?	<entity a="" and="" approach="" approach.="" as="" be="" by="" changing="" completely="" controls="" could="" covered="" customized="" defined="" different="" elements="" identifies="" implementation="" meet="" met="" not="" objective.="" of="" or="" periodicity="" requirement="" requirement,="" set="" small="" so="" the="" this="" to="" what="" will=""></entity>				
2.3 How will the proposed solution prevent the mischief?	<entity 1.3.="" controls="" describes="" detailed="" how="" identified="" in="" matrix="" mischief="" prevent="" the="" will=""></entity>				

This template is only for the Customized Approach Targeted Risk Analysis.

You do not have to use the PCI SSC's template, but all items in their template must be included.

Mischief managed.

Sample Targeted Risk Analys To be	sis for PCI DSS Req completed by the e			stomized A	approach				
Item	Details				Likelihood of				
3. Analyze any changes to the LIKELIHOOD of the	e mischief occurring	j, leading	to a breach in c	onfidential	ity of cardholder o	lata	mischief		
 3.1 Describe the factors detailed in the Control Matrix that affect the likelihood of the mischief occurring. 3.2 Describe the reasons the mischief may still occur 			s will be at preventin the Control Matrix r	•	ef kelihood of the mischi	ef occurring	occurring and how your customized control(s)		
after the application of the customized control.	 The typical reasons for the control to fail, the likelihood of this, and how could it be prevented How resilient the entity's processes and systems are for detecting that the control(s) are not operating normally? How a threat actor could bypass this control – what steps would they need to take, how hard is it, would the threat actor be detected before the control failed? How has this been determined? 				impact that likelihood.				
3.3 To what extent do the controls detailed in the customized approach represent a change in the likelihood of the mischief occurring when compared with the defined approach requirement?	Mischief more likely to occur		No change		Mischief less likely to occur				
3.4 Provide the reasoning for your assessment of the change in likelihood that the mischief occurs once the customized controls are in place.			essment documente d for the assessmen		ed at 3.3.				

HALOCK°

Requirement 12.5.2

Requirements and	Testing Procedures	Guidance
Defined Approach Requirements	Defined Approach Testing Procedures	Purpose
 12.5.2 PCI DSS scope is documented and confirmed by the entity at least once every 12 months and upon significant change to the in-scope environment. At a minimum, the scoping validation includes: Identifying all data flows for the various payment stages (for example, authorization, capture settlement, chargebacks, and refunds) and acceptance channels (for example, card-present, card-not-present, and e-commerce). Updating all data-flow diagrams per Requirement 1.2.4. Identifying all locations where account data is stored, processed, and transmitted, including but not limited to: 1) any locations outside of the currently defined CDE, 2) applications that process CHD, 3) transmissions between systems and networks, and 4) file backups. Identifying all segmentation controls in use and the environment(s) from which the CDE is segmented, including justification for environments being out of scope. Identifying all connections from third-party entities with access to the CDE. 	 Scope is documented and event the entity at least once every 12 months. At least once every 12 months. Scoping confirmation activity includes all elements specified in this requirement. Data stores (databincluding but on 1) any locations outside of the firse CDE, or that could impact the CDE, is including patched to the CDE, is including patched to the CDE. all system components in the CDE, is including patched to the CDE. all connections from third-party access to the CDE. at and id connections from third-party access to the CDE. that all identified data flows, account no components, segmentation on for third parties with 	 ensure PCI DSS scope remains aligned with changing business of therefore that security controls a appropriate system components Good Practice Accurate scoping involves critica CDE and all connected system c determine the necessary coverage requirements. Scoping activities, analysis and ongoing monitoring that in-scope systems are appropriate when documenting account date entity can consider creating at tal spreadsheet that includes the fol- information: Data stores (databases, files including the purpose of data retention period, Which CHD elements are st date, cardholder name, and of SAD prior to completion o How data is secured (type o strength, hashing algorithm truncation, tokenization), How access to data stores is including in use (enterg application level, operating s
Customized Approach Objective		In addition to internal systems an connections from third-party entit
PCI DSS scope is verified periodically, and after significant changes, by comprehensive analysis and appropriate technical measures.		example, business partners, enti remote support services, and oth providers—need to be identified inclusion for PCI DSS scope. On
Applicability Notes		connections have been identified PCI DSS controls can be implem
This annual confirmation of PCI DSS scope is an activity expected to be performed by the entity		the risk of a third-party connectio compromise an entity's CDE.
under assessment, and is not the same, nor is it intended to be replaced by, the scoping confirmation performed by the entity's assessor during the annual assessment.		A data discovery tool or methodo to facilitate identifying all sources PAN, and to look for PAN that re and networks outside the current or in unexpected places within the

n of PCI DSS scope helps to cope remains up to date and ging business objectives, and urity controls are protecting all m components.

nvolves critically evaluating the ected system components to essary coverage for PCI DSS ping activities, including careful bing monitoring, help to ensure ems are appropriately secured. ng account data locations, the creating a table or ncludes the following

- latabases, files, cloud, etc.), purpose of data storage and the od.
- lements are stored (PAN, expiry der name, and/or any elements o completion of authorization),
- ecured (type of encryption and ning algorithm and strength, (enization)
- data stores is logged, escription of logging in use (enterprise solution, el, operating system level,

al systems and networks, all hird-party entities-for partners, entities providing vices, and other service be identified to determine OSS scope. Once the in-scope been identified, the applicable can be implemented to reduce arty connection being used to tity's CDE.

ool or methodology can be used ing all sources and locations of for PAN that resides on systems ide the currently defined CDE or in unexpected places within the defined CDEfor example, in an error log or memory dump file. This approach can help ensure that previously unknown locations of PAN are detected and that the PAN is either eliminated or properly secured.

WHAT

PURPOSE

IMPACT

PROCESS

PCI DSS Scope is defined and confirmed by the assessed entity, at least annually. Independent of the QSA's scope validation efforts.

PCI DSS scoping can be the most difficult to understand, therefore extremely important to understand and manage, before a QSA starts their validation.

Assessed entities will need to develop a process to define and confirm scope, at least annually.

Note: Service Providers will be required to do this bi-annually in March of 2025.

Organizations will need to ensure a process exists to validate PCI DSS scope annually. The Defined Approach Details explains what needs to be included. This requirement Good Practice guidance is very helpful.

HALOCK[®]

Requirement 12.9.2

Requirements and Testing Procedures		Guidance	
Defined Approach Requirements	Defined Approach Testing Procedures	Purpose	
 29.2 Additional requirement for service providers only: TPSPs support their customers' equests for information to meet Requirements (2.8.4 and 12.8.5 by providing the following upon sustomer request: PCI DSS compliance status information for any service the TPSP performs on behalf of customers (Requirement 12.8.4). Information about which PCI DSS requirements are the responsibility of the TPSP and which are the responsibility of the customer, including any shared responsibilities (Requirement 12.8.5). Customized Approach Objective TPSPs provide information as needed to support heir customers' PCI DSS compliance efforts. Applicability Notes This requirement applies only when the entity being issessed is a service provider. 	12.9.2 Additional testing procedures provider assessments only: Examine policies and procedures to verify processes are defined for the TPSPs to support customers' request for information to meet Requirements 12.8.4 and 12.8.5 in accordance with all elements specified in this requirement.	If a TPSP does not provide the necessary information to enable its customers to meet their security and compliance requirements, the customers will not be able to protect cardholder data nor meet their own contractual obligations. Good Practice If a TPSP has a PCI DSS Attestation of Compliance (AOC), the expectation is that the TPSP should provide that to customers upon request to demonstrate their PCI DSS compliance status. If the TPSP did not undergo a PCI DSS assessment, they may be able to provide other sufficient evidence to demonstrate that it has met the applicable requirements without undergoing a formal compliance validation. For example, the TPSP can provide specific evidence to the entity's assessments by each of its customers' assessors, with each assessment targeted to confirm that applicable requirements are met. TPSPs should provide sufficient evidence to their customers to verify that the scope of the TPSP's PCI DSS assessment covered the services applicable to the customer and that the relevant PCI DSS requirements were examined and determined to be in place. (continued on next page)	
		TPSPs may define their PCI DSS responsibilities to be the same for all their customers; otherwise, this responsibility should be agreed upon by both the customer and TPSP. It is important that the customer understands which PCI DSS requirements and sub-requirements its TPSPs have agreed to meet, which requirements are shared between the TPSP and the customer, and for those that are shared, specifics about how the requirements are shared and which entity is responsible for meeting each sub-requirement. An example of a way to document these responsibilities is via a matrix that identifies all applicable PCI DSS requirements and indicates whether the customer or TPSP is responsible for meeting that requirement or whether it is a shared responsibility.	

WHAT

PCI DSS Service Providers will need to support their customers' requests for information regarding PCI DSS compliance and responsibilities.

Third Party Service Providers are expected to already be doing this. However, this is still an issue in the payment community.

IMPACT

PROCESS

PURPOSE

This requirement should help support merchant needs to receive this cooperation from third party service providers.

Third Party Service Provider will need to have documented policies and procedures to support customer's requests for PCI compliance information.

Why are these applicable immediately?

These requirements are applicable immediately because organizations are expected to already have these controls in place.

These requirements are not asking for new technologies, they are all related to new documentation and processes to support existing <u>PCI DSS requirements</u>.

Implementing these changes should not be time or resource intensive.





Questions?



Viviana Wesley, CISM, PCI QSA, ISO 27001 Auditor www.wesley@halock.com

https://www.halock.com

PCI Compliance articles

