

Texas Tech University Health Sciences Center El Paso HSCEP OP: 50.37 Attachment B

	# Provisions for all PCI DSS V4.0 Requirements	Responsibility
	1 Install and Maintain Network Security Controls 1.1 Processes and mechanisms for installing and maintaining network security controls are defined and understood.	
1	 1.1 All security policies and operational procedures that are identified in Requirement 1 are: Documented. Kept up to date. In use. 	Information Assurance
1	 Known to all affected parties. 1.2 Roles and responsibilities for performing activities in Requirement 1 are documented, assigned, and understood. 	Information Assurance
1	1.2 Network security controls (NSCs) are configured and maintained. 2.1 Configuration standards for NSC rulesets are: Defined.	Information Assurance
	Implemented. Maintained.	
	2.2 All changes to network connections and to configurations of NSCs are approved and managed in accordance with the change control process defined at Requirement 6.5.1. 2.3 An accurate network diagram(s) is maintained that shows all connections between the CDE and other networks,	Information Assurance
1	including any wireless networks. 2.4 An accurate data-flow diagram(s) is maintained that meets the following: • Shows all account data flows across systems and networks.	Departmental
	 Updated as needed upon changes to the environment. All services, protocols and ports allowed are identified, approved, and have a defined business need. 	I.T. Cybersecurity Office
	2.6 Security features are defined and implemented for all services, protocols, and ports that are in use and considered to be insecure, such that the risk is mitigated. 2.7 Configurations of NSCs are reviewed at least once every six months to confirm they are relevant and effective.	I.T. Cybersecurity Office I.T. Cybersecurity Office
1	2.8 Configuration files for NSCs are: Secured from unauthorized access. Kept consistent with active network configurations.	I.T. Cybersecurity Office
1	1.3 Network access to and from the cardholder data environment is restricted. 3.1 Inbound traffic to the CDE is restricted as follows:	I.T. Cybersecurity Office / Networking
1	To only traffic that is necessary, All other traffic is specifically denied. 3.2 Outbound traffic from the CDE is restricted as follows:	I.T. Cybersecurity Office / Networking
1	 To only traffic that is necessary. All other traffic is specifically denied. 3.3 NSCs are installed between all wireless networks and the CDE, regardless of whether the wireless network is a CDE, 	I.T Networking
	such that: All wireless traffic from wireless networks into the CDE is denied by default. Only wireless traffic with an authorized business purpose is allowed into the CDE. 	
	1.4 Network connections between trusted and untrusted networks are controlled.	
	 4.1 NSCs are implemented between trusted and untrusted networks. 4.2 Inbound traffic from untrusted networks to trusted networks is restricted to: Communications with system components that are authorized to provide publicly accessible services, protocols, and ports. Stateful responses to communications initiated by system components in a trusted network. 	I.T. Cybersecurity Office / Networking I.T. Cybersecurity Office / Networking
1	All other traffic is denied. A.3 Anti-spoofing measures are implemented to detect and block forged source IP addresses from entering the trusted network.	I.T. Cybersecurity Office
	4.4 System components that store cardholder data are not directly accessible from untrusted networks. 4.5 The disclosure of internal IP addresses and routing information is limited to only authorized parties. 1.5 Risks to the CDE from computing devices that are able to connect to both untrusted networks and the CDE are	I.T. Cybersecurity Office / Networking I.T. Cybersecurity Office / Networking
1	mitigated. 5.1 Security controls are implemented on any computing devices, including company- and employee-owned devices, that connect to both untrusted networks (including the Internet) and the CDE as follows.	I.T. Cybersecurity Office / PC Support
	 Specific configuration settings are defined to prevent threats being introduced into the entity's network. Security controls are actively running. Security controls are not alterable by users of the computing devices unless specifically documented and authorized by management on a case-by-case basis for a limited period. 	
	 2 Apply Secure Configurations to All System Components 2.1 Processes and mechanisms for applying secure configurations to all system components are defined and understood. 	
2	 1.1 All security policies and operational procedures that are identified in Requirement 2 are: Documented. Kept up to date. In use. 	Information Assurance
2	 Known to all affected parties. 1.2 Roles and responsibilities for performing activities in Requirement 2 are documented, assigned, and understood. 	Information Assurance
2	 2.2 System components are configured and managed securely. 2.1 Configuration standards are developed, implemented, and maintained to: Cover all system components. Address all known security vulnerabilities. Be consistent with industry-accepted system hardening standards or vendor hardening recommendations. Be updated as new vulnerability issues are identified, as defined in Requirement 6.3.1. Be applied when new systems are configured and verified as in place before or immediately after a system component is connected to a production environment. 	Information Assurance
2	 2.2 Vendor default accounts are managed as follows: If the vendor default account(s) will be used, the default password is changed per Requirement 8.3.6. If the vendor default account(s) will not be used, the account is removed or disabled. 	Departmental

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	Primary functions requiring different security levels are managed as follows:	I.T Cybersecurity / PC Support
	Only one primary function exists on a system component, OR	
	Primary functions with differing security levels that exist on the same system component are isolated from each	
	other,	
	 OR Primary functions with differing security levels on the same system component are all secured to the level 	
	required by the function with the highest security need.	
	Only necessary services, protocols, daemons, and functions are enabled, and all unnecessary functionality is removed	I.T PC Support
	or disabled. If any insecure services, protocols, or daemons are present:	I.T Cybersecurity / PC Support
	Business justification is documented.	
	 Additional security features are documented and implemented that reduce the risk of using insecure services, protocols, or daemons. 	
		I.T Cybersecurity / PC Support / Networking
		I.T Cybersecurity
	Wireless environments are configured and managed securely. For wireless environments connected to the CDE or transmitting account data, all wireless vendor defaults are	I.T Networking
	changed at installation or are confirmed to be secure, including but not limited to:	
	Default wireless encryption keys. Descupers a wireless access points	
	Passwords on wireless access points. SNMP defaults.	
	Any other security-related wireless vendor defaults.	
	For wireless environments connected to the CDE or transmitting account data, wireless encryption keys are changed as follows:	I.I NETWORKING
	Whenever personnel with knowledge of the key leave the company or the role for which the knowledge was	
	necessary.	
	Whenever a key is suspected of or known to be compromised. Protect Stored Account Data	
	Processes and mechanisms for protecting stored account data are defined and understood.	A
	 All security policies and operational procedures that are identified in Requirement 3 are: Documented. 	Accounting Services
	Kept up to date.	
	In use. Known to all affected parties.	
	Roles and responsibilities for performing activities in Requirement 3 are documented, assigned, and understood.	Accounting Services
2.2		
	Storage of account data is kept to a minimum. Account data storage is kept to a minimum through implementation of data retention and disposal policies, procedures, and	Accounting Services
1	rocesses that include at least the following: Coverage for all locations of stored account data.	
	Coverage for any sensitive authentication data (SAD) stored prior to completion of authorization. This bullet is a best practice	
	until its effective date; refer to Applicability Notes below for details.	
	 Limiting data storage amount and retention time to that which is required for legal or regulatory, and/or business requirements. 	
	 Specific retention requirements for stored account data that defines length of retention period and includes a documented business justification. 	
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#	Provisions for all PCI DSS V4.0 Requirements	Responsibility
	Secret and private keys used to encrypt/decrypt stored account data are stored in one (or more) of the following	I.T. Cybersecurity Office
	 forms at all times: Encrypted with a key-encrypting key that is at least as strong as the data-encrypting key, and that is stored 	
	 within a secure cryptographic device (SCD), such as a hardware security module (HSM) or PTS-approved point-of- 	
	 As at least two full-length key components or key shares, in accordance with an industry-accepted method. 	
3.6.1.3	Access to cleartext cryptographic key components is restricted to the fewest number of custodians necessary.	I.T. Cybersecurity Office
	Cryptographic keys are stored in the fewest possible locations. Where cryptography is used to protect stored account data, key-management processes and procedures covering all	I.T. Cybersecurity Office
	aspects of the key lifecycle are defined and implemented. Key-management policies and procedures are implemented to include generation of strong cryptographic keys used	LT_Cybersecurity Office
	to protect stored account data.	
	Key-management policies and procedures are implemented to include secure distribution of cryptographic keys used to protect stored account data.	
3.7.3	Key-management policies and procedures are implemented to include secure storage of cryptographic keys used to protect stored account data.	I.T. Cybersecurity Office
3.7.4	Key-management policies and procedures are implemented for cryptographic key changes for keys that have reached the end of their cryptoperiod, as defined by the associated application vendor or key owner, and based on industry best practices and guidelines, including the following:	I.T. Cybersecurity Office
	 A defined cryptoperiod for each key type in use. A process for key changes at the end of the defined cryptoperiod. 	
3.7.5	Key-management policies procedures are implemented to include the retirement, replacement, or destruction of keys used to protect stored account data, as deemed necessary when:	I.T. Cybersecurity Office / Networking
	 The key has reached the end of its defined cryptoperiod. The integrity of the key has been weakened, including when personnel with knowledge of a cleartext key component leaves the company, or the role for which the key component was known. 	
	 The key is suspected of or known to be compromised. 	
3.7.6	Retired or replaced keys are not used for encryption operations. Where manual cleartext cryptographic key-management operations are performed by personnel, key- management policies and procedures are implemented include managing these operations using split knowledge and dual control.	I.T. Cybersecurity Office
3.7.7	Key-management policies and procedures are implemented to include the prevention of unauthorized substitution of	I.T. Cybersecurity Office
3.7.8	cryptographic keys. Key-management policies and procedures are implemented to include that cryptographic key custodians formally acknowledge (in writing or electronically) that they understand and accept their key- custodian responsibilities.	I.T. Cybersecurity Office
3.7.9	Additional requirement for service providers only	Not Applicable
	Protect Cardholder Data with Strong Cryptography During Transmission Over Open, Public Networks Processes and mechanisms for protecting cardholder data with strong cryptography during transmission over open,	
	public networks are defined and documented. All security policies and operational procedures that are identified in Requirement 4 are:	Information Assurance
4.1.1	Documented.	momation Assorance
	Kept up to date. In use.	
4.1.2	 Known to all affected parties. Roles and responsibilities for performing activities in Requirement 4 are documented, assigned, and understood. 	Information Assurance
	PAN is protected with strong cryptography during transmission. Strong cryptography and security protocols are implemented as follows to safeguard PAN during transmission over	I.T. Cybersecurity Office
	 open, public networks: Only trusted keys and certificates are accepted. 	
	Certificates used to safeguard PAN during transmission over open, public networks are confirmed as valid and are not expired or revoked. This bullet is a best practice until its effective date; refer to Applicability Notes below for	
	details. • The protocol in use supports only secure versions or configurations and does not support fallback to, or use of	
	 The protocol in the support of implementations on comparations and obes not support nanoack to, or use of insecure versions, algorithms, key sizes, or implementations. The encryption strength is appropriate for the encryption methodology in use. 	
4.2.1.1	An inventory of the entity's trusted keys and certificates used to protect PAN during transmission is maintained.	I.T. Cybersecurity Office
4212	Wireless networks transmitting PAN or connected to the CDE use industry best practices to implement strong	I.T. Cybersecurity Office
	cryptography for authentication and transmission.	I.T. Cybersecurity Office
5	PAN is secured with strong cryptography whenever it is sent via end-user messaging technologies. Protect All Systems and Networks from Malicious Software	The cybersecurity Onice
5.1	Processes and mechanisms for protecting all systems and networks from malicious software are defined and understood.	
5.1.1	 All security policies and operational procedures that are identified in Requirement 5 are: Documented. 	Information Assurance
	Kept up to date. In use.	
512	Known to all affected parties. Roles and responsibilities for performing activities in Requirement 5 are documented, assigned, and understood.	Information Assurance
	New requirement - effective immediately	
	Malicious software (malware) is prevented, or detected and addressed.	LT Champerite Office
5.2.1	An anti-malware solution(s) is deployed on all system components, except for those system components identified in periodic evaluations per Requirement	The cybersecurity Onice
5.2.2	5.2.3 that concludes the system components are not at risk from malware. The deployed anti-malware solution(s):	I.T. Cybersecurity Office
	Detects all known types of malware. Removes, blocks, or contains all known types of malware.	
5.2.3	Any system components that are not at risk for malware are evaluated periodically to include the following: A documented list of all system components not at risk for malware. 	I.T. Cybersecurity Office
	 Identification and evaluation of evolving malware threats for those system components. Confirmation whether such system components continue to not require anti-malware protection. 	
5.2.3.1	The frequency of periodic evaluations of system components identified as not at risk for malware is defined in the	I.T. Cybersecurity Office
	entity's targeted risk analysis, which is performed according to all elements specified in Requirement 12.3.1.	
5.3	Anti-malware mechanisms and processes are active, maintained, and monitored.	

5.3 Anti-malware mechanisms and processes are active, maintained, and monitored.

#	Provisions for all PCI DSS V4.0 Requirements	Responsibility
531	The anti-malware solution(s) is kept current via automatic updates.	I.T. Cybersecurity Office
	The anti-malware solution(s):	I.T. Cybersecurity Office
	Performs periodic scans and active or real-time scans	
	OR	
	 Performs continuous behavioral analysis of systems or processes. If periodic malware scans are performed to meet Requirement 5.3.2, the frequency of scans is defined in the entity's targeted risk analysis, which is performed according to all elements specified in Requirement 12.3.1. 	I.T. Cybersecurity Office
5.3.3	For removable electronic media, the anti-malware solution(s): • Performs automatic scans of when the media is inserted, connected, or logically mounted, OR	I.T. Cybersecurity Office
	 Performs continuous behavioral analysis of systems or processes when the media is inserted, connected, or logically mounted. 	
5.3.4	Audit logs for the anti-malware solution(s) are enabled and retained in accordance with Requirement 10.5.1.	I.T. Cybersecurity Office
	Anti-malware mechanisms cannot be disabled or altered by users, unless specifically documented, and authorized by management on a case-by-case basis for a limited time period.	I.T. Cybersecurity Office
	Anti-phishing mechanisms protect users against phishing attacks. Processes and automated mechanisms are in place to detect and protect personnel against phishing attacks.	I.T. Cybersecurity Office / TTUHSC Lubbock Information Security
	Develop and Maintain Secure Systems and Software	
	Processes and mechanisms for developing and maintaining secure systems and software are defined and understood.	
	All security policies and operational procedures that are identified in Requirement 6 are:	Information Assurance
	Documented.Kept up to date.	
	In use.	
	Known to all affected parties.	
6.1.2	Roles and responsibilities for performing activities in Requirement 6 are documented, assigned, and understood.	Information Assurance
6.2	Bespoke and custom software are developed securely.	
6.2.1	Bespoke and custom software are developed securely, as follows:	Software Applications Support
	 Based on industry standards and/or best practices for secure development. In accordance with PCI DSS (for example, secure authentication and logging). 	
	Incorporating consideration of information security issues during each stage of the software development	
	lifecycle. Software development personnel working on bespoke and custom software are trained at least once every 12 months	Software Applications Support
	as follows:	
	 On software security relevant to their job function and development languages. 	
	 Including secure software design and secure coding techniques. Including, if security testing tools are used, how to use the tools for detecting vulnerabilities in software. 	
	Bespoke and custom software is reviewed prior to being released into production or to customers, to identify and	Software Applications Support
	 correct potential coding vulnerabilities, as follows: Code reviews ensure code is developed according to secure coding guidelines. 	
	 Code reviews look for both existing and emerging software vulnerabilities. 	
	Appropriate corrections are implemented prior to release.	
	If manual code reviews are performed for bespoke and custom software prior to release to production, code changes are:	Software Applications Support
	Reviewed by individuals other than the originating code author, and who are knowledgeable about code-review	
	 techniques and secure coding practices. Reviewed and approved by management prior to release. 	
6.2.4	Software engineering techniques or other methods are defined and in use by software development personnel to prevent or mitigate common software attacks and related vulnerabilities in bespoke and custom software, including	Software Applications Support
	 Injection attacks, including SQL, LDAP, XPath, or other command, parameter, object, fault, or injection-type flaws. 	
	 Attacks on data and data structures, including attempts to manipulate buffers, pointers, input data, or shared data. 	
	 Attacks on cryptography usage, including attempts to exploit weak, insecure, or inappropriate cryptographic implementations algorithms, gipher suites, or modes of appraising a distance of appraising a distanc	
	implementations, algorithms, cipher suites, or modes of operation. • Attacks on business logic, including attempts to abuse or bypass application features and functionalities through the manipulation of APIs, communication protocols	
	and channels, client-side functionality, or other system/application functions and resources. This includes cross-site	
	 scripting (XSS) and cross-site request forgery (CSRF). Attacks on access control mechanisms, including attempts to bypass or abuse identification, authentication, or 	
	authorization mechanisms, or attempts to exploit weaknesses in the implementation of such mechanisms.	
	Attacks via any "high-risk" vulnerabilities identified in the vulnerability identification process, as defined in	
	Requirement 6.3.1.	
63	Security vulnerabilities are identified and addressed.	
	Security vulnerabilities are identified and addressed. Security vulnerabilities are identified and managed as follows:	I.T. Cybersecurity Office
	New security vulnerabilities are identified using industry- recognized sources for security vulnerability	
	 information, including alerts from international and national computer emergency response teams (CERTs). Vulnerabilities are assigned a risk ranking based on industry best practices and consideration of potential impact. 	
	 vulnerabilities are assigned a risk ranking based on industry best practices and consideration or potential impact. Risk rankings identify, at a minimum, all vulnerabilities considered to be a high-risk or critical to the environment. 	
	• Vulnerabilities for bespoke and custom, and third-party software (for example operating systems and databases)	
	are covered.	

6.3.2 An inventory of bespoke and custom software, and third- party software components incorporated into bespoke and Information Assurance

custom software is maintained to facilitate vulnerability and patch management. 6.3.3 All system components are protected from known vulnerabilities by installing applicable security patches/updates as I.T. Cybersecurity Office / Data Center Team / I.T. - PC Support follows:

Critical or high-security patches/updates (identified according to the risk ranking process at Requirement

6.3.1) are installed within one month of release.
All other applicable security patches/updates are installed within an appropriate time frame as determined by the entity (for example, within three months of release).

6.4 Public-facing web applications are protected against attacks.

#	Provisions for all PCI DSS V4.0 Requirements	Responsibility
6.4.1	For public-facing web applications, new threats and vulnerabilities are addressed on an ongoing basis and these	I.T. Cybersecurity Office / Data Center Team
	 applications are protected against known attacks as follows: Reviewing public-facing web applications via manual or automated application vulnerability security assessment 	
	 tools or methods as follows: At least once every 12 months and after significant changes. 	
	 By an entity that specializes in application security. Including, at a minimum, all common software attacks in Requirement 6.2.4. 	
	 All vulnerabilities are ranked in accordance with Requirement 6.3.1. All vulnerabilities are corrected. 	
	 The application is re-evaluated after the corrections 	
	OR Installing an automated technical solution(s) that continually detects and prevents web-based attacks as follows: 	
	 Installed in front of public-facing web applications to detect and prevent web-based attacks. Actively running and up to date as applicable. 	
	Generating audit logs. Configured to either block web-based attacks or generate an alert that is immediately investigated.	
642	For public-facing web applications, an automated technical solution is deployed that continually detects and prevents	LT_Cybersecurity Office
	web-based attacks, with at least the following: Is installed in front of public-facing web applications and is configured to detect and prevent web-based attacks. 	
	 Actively running and up to date as applicable. 	
	 Generating audit logs. Configured to either block web-based attacks or generate an alert that is immediately investigated. 	
6.4.3	All payment page scripts that are loaded and executed in the consumer's browser are managed as follows:	I.T. Cybersecurity Office - Data Center Team
	 A method is implemented to confirm that each script is authorized. A method is implemented to assure the integrity of each script. 	
	An inventory of all scripts is maintained with written justification as to why each is necessary.	
	Changes to all system components are managed securely. Changes to all system components in the production environment are made according to established procedures that	Information Assurance
	include: Reason for, and description of, the change. 	
	 Documentation of security impact. Documented change approval by authorized parties. 	
	Testing to verify that the change does not adversely impact system security. For bespoke and custom software changes, all updates are tested for compliance with Requirement 6.2.4 before	
	being deployed into production.	
6.5.2	 Procedures to address failures and return to a secure state. Upon completion of a significant change, all applicable PCI DSS requirements are confirmed to be in place on all new 	I.T. Cybersecurity Office
6.5.3	or changed systems and networks, and documentation is updated as applicable. Pre-production environments are separated from production environments and the separation is enforced with	I.T. Cybersecurity Office - Data Center Team
6.5.4	access controls. Roles and functions are separated between production and pre-production environments to provide accountability	I.T. Cybersecurity Office - Data Center Team
6.5.5	such that only reviewed and approved changes are deployed. Live PANs are not used in pre-production environments, except where those environments are included in the CDE	I.T. Cybersecurity Office / Data Center Team / Software Applications Support
	and protected in accordance with all applicable PCI DSS requirements.	
6.5.6		I.T. Cybersecurity Office / Data Center Team / Software Applications Support
7	Test data and test accounts are removed from system components before the system goes into production. Restrict Access to System Components and Cardholder Data by Business Need to Know	I.T. Cybersecurity Office / Data Center Team / Software Applications Support
7	Test data and test accounts are removed from system components before the system goes into production.	I.T. Cybersecurity Office / Data Center Team / Software Applications Support
7 7.1	Test data and test accounts are removed from system components before the system goes into production. Restrict Access to System Components and Cardholder Data by Business Need to Know Processes and mechanisms for restricting access to system components and cardholder data by business need to	I.T. Cybersecurity Office / Data Center Team / Software Applications Support
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7 7.1 7.1.1 7.1.2 7.2 7.2.1	Test data and test accounts are removed from system components before the system goes into production. Restrict Access to System Components and Cardholder Data by Business Need to Know Processes and mechanisms for restricting access to system components and cardholder data by business need to know are defined and understood. All security policies and operational procedures that are identified in Requirement 7 are: Documented. Kept up to date. Known to all affected parties. Roles and responsibilities for performing activities in Requirement 7 are documented, assigned, and understood. Access to system components and data is appropriately defined and assigned. An access control model is defined and includes granting access as follows: Access to system components and data resources that is based on users' job classification and functions. The least privileges required (for example, user, administrator) to perform a job function.	Information Assurance Information Assurance Departmental
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# 722	Provisions for all PCI DSS V4.0 Requirements	Responsibility
	The access control system(s) is set to "deny all" by default. Identify Users and Authenticate Access to System Components	Departmental
	Processes and mechanisms for identifying users and authenticating access to system components are defined and	
	understood. All security policies and operational procedures that are identified in Requirement 8 are:	Accounting Services
	Documented.	
	Kept up to date.	
	In use. Known to all affected parties.	
	Roles and responsibilities for performing activities in Requirement 8 are documented, assigned, and understood.	Accounting Services
0.2	· · · · · · · · · · · · · · · · · · ·	
	User identification and related accounts for users and administrators are strictly managed throughout an account's lifecycle.	
	All users are assigned a unique ID before access to system components or cardholder data is allowed.	Departmental
	Group, shared, or generic accounts, or other shared authentication credentials are only used when necessary on an	I.T. Cybersecurity Office / Departmental
	 exception basis, and are managed as follows: Account use is prevented unless needed for an exceptional circumstance. 	
	 Use is limited to the time needed for the exceptional circumstance. 	
	Business justification for use is documented.	
	 Use is explicitly approved by management. Individual user identity is confirmed before access to an account is granted. 	
	Every action taken is attributable to an individual user.	
	Additional requirement for service providers only Addition, deletion, and modification of user IDs, authentication factors, and other identifier objects are managed as	Not Applicable Departmental
	follows:	Departmentar
	Authorized with the appropriate approval.	
0 7 5	 Implemented with only the privileges specified on the documented approval. Access for terminated users is immediately revoked. 	Departmental
	Inactive user accounts are removed or disabled within 90 days of inactivity.	Departmental
8.2.7	Accounts used by third parties to access, support, or maintain system components via remote access are managed as	
	follows:	
	 Enabled only during the time period needed and disabled when not in use. Use is monitored for unexpected activity. 	
	If a user session has been idle for more than 15 minutes, the user is required to re-authenticate to re- activate the	I.T. Cybersecurity Office / Data Center / Departmental
	terminal or session.	
	Strong authentication for users and administrators is established and managed. All user access to system components for users and administrators is authenticated via at least one of the following	I.T. Cybersecurity Office / Data Center / Departmental
	authentication factors:	
	Something you know, such as a password or passphrase.	
	 Something you have, such as a token device or smart card. Something you are, such as a biometric element. 	
8.3.2	Strong cryptography is used to render all authentication factors unreadable during transmission and storage on all	I.T. Cybersecurity Office / Data Center / Departmental
	system components.	LT. Cubercogurity Office / Data Conter / Departmental
	User identity is verified before modifying any authentication factor. Invalid authentication attempts are limited by:	I.T. Cybersecurity Office / Data Center / Departmental I.T. Cybersecurity Office / Data Center / Departmental
	 Locking out the user ID after not more than 10 attempts. 	
	 Setting the lockout duration to a minimum of 30 minutes or until the user's identity is confirmed. If passwords/passphrases are used as authentication factors to meet Requirement 8.3.1, they are set and reset for 	
	each user as follows:	I.T. Cybersecurity Office / Data Center / Departmental
	 Set to a unique value for first-time use and upon reset. 	
	 Forced to be changed immediately after the first use. If passwords/passphrases are used as authentication factors to meet Requirement 8.3.1, they meet the following 	I.T. Cybersecurity Office / Data Center / Departmental
	minimum level of complexity:	in cybersecurity office y bata center y bepartmental
	• A minimum length of 12 characters (or IF the system does not support 12 characters, a minimum length of eight	
	 characters). Contain both numeric and alphabetic characters. 	
	Individuals are not allowed to submit a new password/passphrase that is the same as any of the last four	I.T. Cybersecurity Office / Data Center / Departmental
	passwords/passphrases used.	
8.3.8	Authentication policies and procedures are documented and communicated to all users including:	I.T. Cybersecurity Office / Data Center / Departmental
	 Guidance on selecting strong authentication factors. Guidance for how users should protect their authentication factors. 	
	 Instructions not to reuse previously used passwords/passphrases. 	
	 Instructions to change passwords/passphrases if there is any suspicion or knowledge that the password/passphrases have been compromised and how to report the incident. 	
	If passwords/passphrases have been compromised and now to report the incluent.	I.T. Cybersecurity Office / Data Center / Departmental
	authentication implementation) then either:	
	 Passwords/passphrases are changed at least once every 90 days, OR 	
	 The security posture of accounts is dynamically analyzed, and real-time access to resources is automatically 	
	determined accordingly.	
	Additional requirement for service providers only	Not Applicable
	Additional requirement for service providers only Where authentication factors such as physical or logical security tokens, smart cards, or certificates are used:	Not Applicable I.T. Cybersecurity Office / Data Center / Departmental
	 Factors are assigned to an individual user and not shared among multiple users. 	
	 Physical and/or logical controls ensure only the intended user can use that factor to gain access. 	
	Multi-factor authentication (MFA) is implemented to secure access into the CDE.	
	MFA is implemented for all non-console access into the CDE for personnel with administrative access. MFA is implemented for all access into the CDE.	I.T. Cybersecurity Office / Data Center / Departmental I.T. Cybersecurity Office / Data Center / Departmental
	MFA is implemented for all access into the CDE. MFA is implemented for all remote network access originating from outside the entity's network that could access or	I.I. Cybersecurity Office / Data Center / Departmental
	impact the CDE as follows:	
	All remote access by all personnel, both users and administrators, originating from outside the entity's network.	
	All remote access by third parties and vendors.	
8.5	Multi-factor authentication (MFA) systems are configured to prevent misuse.	
	MFA systems are implemented as follows:	I.T. Cybersecurity Office / Data Center / Departmental
	 The MFA system is not susceptible to replay attacks. MFA systems cannot be bypassed by any users, including administrative users unless specifically documented, and 	
	authorized by management on an exception basis, for a limited time period.	
	authorized by management on an exception basis, for a limited time period. At least two different types of authentication factors are used. Success of all authentication factors is required before access is granted.	

#	Provisions for all PCI DSS V4.0 Requirements	Responsibility
861	If accounts used by systems or applications can be used for interactive login, they are managed as follows:	I.T. Cybersecurity Office / Data Center / Departmental
0.0.1	 Interactive use is prevented unless needed for an exceptional circumstance. 	in cybersecurity onice, but center, bepartmentar
	 Interactive use is limited to the time needed for the exceptional circumstance. 	
	Business justification for interactive use is documented.	
	 Interactive use is explicitly approved by management. 	
	 Individual user identity is confirmed before access to account is granted. 	
	 Every action taken is attributable to an individual user. 	
067	Parcularde (parchbrarce for any application and curter accounts that can be used for interactive login are not bard	Departmental / Software Applications Support
	Passwords/passphrases for any application and system accounts that can be used for interactive login are not hard coded in scripts, configuration/property files, or bespoke and custom source code.	Departmental / Software Applications Support
	Passwords/passphrases for any application and system accounts are protected against misuse as follows:	I.T. Cybersecurity Office / Data Center / Departmental
8.0.5	 Passwords/passpirases for any application and system accounts are protected against misuse as follows. Passwords/passpirases are changed periodically (at the frequency defined in the entity's targeted risk analysis, 	1.1. Cybersecurity Office / Data Center / Departmental
	which is performed according to all elements specified in Requirement 12.3.1) and upon suspicion or confirmation of	
	compromise.	
	Passwords/passphrases are constructed with sufficient complexity appropriate for how frequently the entity	
	changes the passwords/passphrases.	
	Restrict Physical Access to Cardholder Data	
	Processes and mechanisms for restricting physical access to cardholder data are defined and understood.	
9.1.1	All security policies and operational procedures that are identified in Requirement 9 are:	Information Assurance
	Documented. Kept up to date.	
	In use.	
	Known to all affected parties.	
9.1.2	Roles and responsibilities for performing activities in Requirement 9 are documented, assigned, and understood.	Information Assurance
5.1.2		
9.2	Physical access controls manage entry into facilities and systems containing cardholder data.	
	Appropriate facility entry controls are in place to restrict physical access to systems in the CDE.	Departmental
	Individual physical access to sensitive areas within the CDE is monitored with either video cameras or physical access	•
	control mechanisms (or both) as follows:	•
	 Entry and exit points to/from sensitive areas within the CDE are monitored. 	
	 Monitoring devices or mechanisms are protected from tampering or disabling. 	
	Collected data is reviewed and correlated with other entries.	
	 Collected data is stored for at least three months, unless otherwise restricted by law. 	
9.2.2	Physical and/or logical controls are implemented to restrict use of publicly accessible network jacks within the facility.	I.T Networking / Departmental
	Physical access to wireless access points, gateways, networking/communications hardware, and telecommunication	I.T Networking
	lines within the facility is restricted.	
	Access to consoles in sensitive areas is restricted via locking when not in use.	I.T. Cybersecurity Office / Departmental
	Physical access for personnel and visitors is authorized and managed.	
	Procedures are implemented for authorizing and managing physical access of personnel to the CDE, including:	Departmental
	Identifying personnel.	
	Managing changes to an individual's physical access requirements.	
	Revoking or terminating personnel identification.	
	 Limiting access to the identification process or system to authorized personnel. 	
9.3.1.1	Physical access to sensitive areas within the CDE for personnel is controlled as follows:	Departmental
	Access is authorized and based on individual job function.	
	Access is revoked immediately upon termination.	
	All physical access mechanisms, such as keys, access cards, etc., are returned or disabled upon termination.	
0 2 2	Procedures are implemented for authorizing and managing visitor access to the CDE, including:	Departmental
5.5.2	 Visitors are authorized before entering. 	Departmentar
	 Visitors are escorted at all times. 	
	 Visitors are clearly identified and given a badge or other identification that expires. 	
	 Visitor badges or other identification visibly distinguishes visitors from personnel. 	
9.3.3	Visitor badges or identification are surrendered or deactivated before visitors leave the facility or at the date of	Departmental
	expiration.	
9.3.4	A visitor log is used to maintain a physical record of visitor activity within the facility and within sensitive areas,	Departmental
	including:	
	The visitor's name and the organization represented.	
	The date and time of the visit.	
	The name of the personnel authorizing physical access.	
	 Retaining the log for at least three months, unless otherwise restricted by law. 	
	Media with cardholder data is securely stored, accessed, distributed, and destroyed.	
	All media with cardholder data is physically secured.	Departmental
	Offline media backups with cardholder data are stored in a secure location.	Departmental
9.4.1.2	The security of the offline media backup location(s) with cardholder data is reviewed at least once every 12 months.	Departmental
	All media with cardholder data is classified in accordance with the sensitivity of the data.	I.T. Cybersecurity / Compliance / Departmental
9.4.3	Media with cardholder data sent outside the facility is secured as follows:	Departmental
	Media sent outside the facility is logged.	
	 Media is sent by secured courier or other delivery method that can be accurately tracked. Off its head is a basis of the delivery method that can be accurately tracked. 	
	Offsite tracking logs include details about media location.	Desertmentel
	Management approves all media with cardholder data that is moved outside the facility (including when media is	Departmental
	distributed to individuals). Inventory logs of all electronic media with cardholder data are maintained.	Departmental
	Inventory logs of all electronic media with cardholder data are maintained. Inventories of electronic media with cardholder data are conducted at least once every 12 months.	Departmental Departmental
		Departmental Departmental
	Hard-copy materials with cardholder data are destroyed when no longer needed for business or legal reasons, as follows:	Deparaticitat
	 Materials are cross-cut shredded, incinerated, or pulped so that cardholder data cannot be reconstructed. 	
	 Materials are cross-cut shredded, incinerated, or pulped so that cardinoider data cannot be reconstructed. Materials are stored in secure storage containers prior to destruction. 	
947	Electronic media with cardholder data is destroyed when no longer needed for business or legal reasons via one of	Departmental
5.4.7	the following:	
	The electronic media is destroyed.	
	 The cardholder data is rendered unrecoverable so that it cannot be reconstructed. 	
	 The cardholder data is rendered unrecoverable so that it cannot be reconstructed. Point-of-interaction (POI) devices are protected from tampering and unauthorized substitution. 	
9.5		Departmental
9.5 9.5.1	Point-of-interaction (POI) devices are protected from tampering and unauthorized substitution.	Departmental
9.5 9.5.1	Point-of-interaction (POI) devices are protected from tampering and unauthorized substitution. POI devices that capture payment card data via direct physical interaction with the payment card form factor are	Departmental
9.5 9.5.1	Point-of-interaction (POI) devices are protected from tampering and unauthorized substitution. POI devices that capture payment card data via direct physical interaction with the payment card form factor are protected from tampering and unauthorized substitution, including the following: • Maintaining a list of POI devices.	Departmental
9.5 9.5.1	Point-of-interaction (POI) devices are protected from tampering and unauthorized substitution. POI devices that capture payment card data via direct physical interaction with the payment card form factor are protected from tampering and unauthorized substitution, including the following:	Departmental

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10.7 Failures of critical security control systems are detected, reported, and responded to promptly.			
			Not Applicable

	Provisions for all PCI DSS V4.0 Requirements	Responsibility
10.7.2	Failures of critical security control systems are detected, alerted, and addressed promptly, including but not limited to	• •
f	failure of the following critical security control systems:	
	Network security controls.	
	IDS/IPS. Change-detection mechanisms.	
	Anti-malware solutions.	
	Physical access controls.	
	Logical access controls. Audit logging mechanisms.	
	Segmentation controls (if used).	
	Audit log review mechanisms.	
	 Automated security testing tools (if used). Failures of any critical security controls systems are responded to promptly, including but not limited to: 	I.T. Cybersecurity
	 Restoring security functions. 	in cybersecurity
	 Identifying and documenting the duration (date and time from start to end) of the security failure. 	
	 Identifying and documenting the cause(s) of failure and documenting required remediation. Identifying and addressing any security issues that arose during the failure. 	
	 Determining whether further actions are required as a result of the security failure. 	
	 Implementing controls to prevent the cause of failure from reoccurring. 	
•	 Resuming monitoring of security controls. 	
	Test Security of Systems and Networks Regularly Processes and mechanisms for regularly testing security of systems and networks are defined and understood.	
	All security policies and operational procedures that are identified in Requirement 11 are:	Information Technology
	Documented.	mornation recinology
	Kept up to date.	
	In use. Known to all affected partice.	
	 Known to all affected parties. Roles and responsibilities for performing activities in Requirement 11 are documented, assigned, and understood. 	Information Technology
	Wireless access points are identified and monitored, and unauthorized wireless access points are addressed. Authorized and unauthorized wireless access points are managed as follows:	Information Assurance
	The presence of wireless (Wi-Fi) access points is tested for.	
	All authorized and unauthorized wireless access points are detected and identified.	
	 Testing, detection, and identification occurs at least once every three months. If automated monitoring is used, personnel are notified via generated alerts. 	
	An inventory of authorized wireless access points is maintained, including a documented business justification.	I.T Networking
11.3	External and internal vulnerabilities are regularly identified, prioritized, and addressed.	
	Internal vulnerability scans are performed as follows:	I.T. Cybersecurity
	At least once every three months.	
	 High-risk and critical vulnerabilities (per the entity's vulnerability risk rankings defined at Requirement 6.3.1) are resolved. 	
	Rescans are performed that confirm all high-risk and critical vulnerabilities (as noted above) have been resolved.	
	Scan tool is kept up to date with latest vulnerability information.	
	 Scans are performed by qualified personnel and organizational independence of the tester exists. 	
11.3.1.1	All other applicable vulnerabilities (those not ranked as high-risk or critical (per the entity's vulnerability risk rankings	I.T. Cybersecurity
	defined at Requirement 6.3.1) are managed as follows:	
	 Addressed based on the risk defined in the entity's targeted risk analysis, which is performed according to all elements specified in Requirement 12.3.1. 	
	 Rescans are conducted as needed. 	
	Internal vulnerability scans are performed via authenticated scanning as follows:	I.T. Cybersecurity
	 Systems that are unable to accept credentials for authenticated scanning are documented. Sufficient privileges are used for those systems that accept credentials for scanning. 	
	 If accounts used for authenticated scanning can be used for interactive login, they are managed in accordance with 	
	Requirement 8.2.2.	
	 Internal vulnerability scans are performed after any significant change as follows: High-risk and critical vulnerabilities (per the entity's vulnerability risk rankings defined at Requirement 6.3.1) are 	I.T. Cybersecurity
	resolved.	
	Rescans are conducted as needed.	
	Scans are performed by qualified personnel and organizational independence of the tester exists (not required to constant of the tester exists)	
	be a QSA or ASV). External vulnerability scans are performed as follows:	I.T. Cybersecurity
	At least once every three months.	
	By a PCI SSC Approved Scanning Vendor (ASV) Mulaorabilities are resolved and ASV Program Guide requirements for a passing scan are met	
	 Vulnerabilities are resolved and ASV Program Guide requirements for a passing scan are met. Rescans are performed as needed to confirm that vulnerabilities are resolved per the ASV Program Guide 	
r	requirements for a passing scan.	
11.3.2.1 I	External vulnerability scans are performed after any significant change as follows:	I.T. Cybersecurity
11.3.2.1	External vulnerability scans are performed after any significant change as follows: Vulnerabilities that are scored 4.0 or higher by the CVSS are resolved. 	I.T. Cybersecurity
11.3.2.1	External vulnerability scans are performed after any significant change as follows:	I.T. Cybersecurity
11.3.2.1	External vulnerability scans are performed after any significant change as follows: Vulnerabilities that are scored 4.0 or higher by the CVSS are resolved. Rescans are conducted as needed. Scans are performed by qualified personnel and organizational independence of the tester exists (not required to be a QSA or ASV).	I.T. Cybersecurity
11.3.2.1	External vulnerability scars are performed after any significant change as follows: Vulnerabilities that are scored 4.0 or higher by the CVSS are resolved. Rescans are conducted as needed. Scans are performed by qualified personnel and organizational independence of the tester exists (not required to be a QSA or ASV). External and internal penetration testing is regularly performed, and exploitable vulnerabilities and security	I.T. Cybersecurity
11.3.2.1 	External vulnerability scans are performed after any significant change as follows: Vulnerabilities that are scored 4.0 or higher by the CVSS are resolved. Rescans are conducted as needed. Scans are performed by qualified personnel and organizational independence of the tester exists (not required to be a QSA or ASV).	I.T. Cybersecurity
11.3.2.1 (11.4.1) 11.4.1)	External vulnerability scans are performed after any significant change as follows: Vulnerabilities that are scored 4.0 or higher by the CVSS are resolved. Rescans are conducted as needed. Scans are performed by qualified personnel and organizational independence of the tester exists (not required to be a QSA or ASV). External and internal penetration testing is regularly performed, and exploitable vulnerabilities and security weaknesses are corrected. A penetration testing methodology is defined, documented, and implemented by the entity, and includes: Industry-accepted penetration testing approaches.	
11.3.2.1 (11.4 (11.4 (11.4.1)	External vulnerability scars are performed after any significant change as follows: Vulnerabilities that are scored 4.0 or higher by the CVSS are resolved. Rescans are conducted as needed. Scans are performed by qualified personnel and organizational independence of the tester exists (not required to be a QSA or ASV). External and internal penetration testing is regularly performed, and exploitable vulnerabilities and security weaknesses are corrected. A penetration testing methodology is defined, documented, and implemented by the entity, and includes: Industry-accepted penetration testing approaches. Coverage for the entire CDE perimeter and critical systems.	
11.3.2.1 11.4 11.4	External vulnerability scans are performed after any significant change as follows: Vulnerabilities that are scored 4.0 or higher by the CVSS are resolved. Rescans are conducted as needed. Scans are performed by qualified personnel and organizational independence of the tester exists (not required to be a QSA or ASV). External and internal penetration testing is regularly performed, and exploitable vulnerabilities and security weaknesses are corrected. A penetration testing methodology is defined, documented, and implemented by the entity, and includes: Industry-accepted penetration testing approaches.	
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11.3.2.1	External vulnerability scans are performed after any significant change as follows: Vulnerabilities that are scored 4.0 or higher by the CVSS are resolved. Rescans are conducted as needed. Scans are performed by qualified personnel and organizational independence of the tester exists (not required to be a CSA or ASV). External and internal penetration testing is regularly performed, and exploitable vulnerabilities and security weaknesses are corrected. A penetration testing methodology is defined, documented, and implemented by the entity, and includes: Industry-accepted penetration testing approaches. Coverage for the entire CDE perimeter and critical systems. Testing from both inside and outside the network. Testing to validate any segmentation and scope- reduction controls. Application-layer penetration testing to identify, at a minimum, the vulnerabilities listed in Requirement 6.2.4. Network-layer penetration tests all components that support network functions as well as	
11.3.2.1	External vulnerability scans are performed after any significant change as follows: Vulnerabilities that are scored 4.0 or higher by the CVSS are resolved. Rescans are conducted as needed. Scans are performed by qualified personnel and organizational independence of the tester exists (not required to be a QSA or ASV). External and internal penetration testing is regularly performed, and exploitable vulnerabilities and security weaknesses are corrected. A penetration testing methodology is defined, documented, and implemented by the entity, and includes: Industry-accepted penetration testing approaches. Coverage for the entire CDE perimeter and critical systems. Testing for both inside and outside the network. Testing to validate any segmentation and scope - reduction controls. Application-layer penetration testing to identify, at a minimum, the vulnerabilities listed in Requirement 6.2.4.	
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11.3.2.1	External vulnerability scans are performed after any significant change as follows: Vulnerabilities that are scored 4.0 or higher by the CVSS are resolved. Rescans are conducted as needed. Scans are performed by qualified personnel and organizational independence of the tester exists (not required to be a QSA or ASV). External and internal penetration testing is regularly performed, and exploitable vulnerabilities and security weaknesses are corrected. A penetration testing methodology is defined, documented, and implemented by the entity, and includes: Industry-accepted penetration testing approaches. Coverage for the entire CDE perimeter and critical systems. Testing fow both inside and outside the network. Testing to validate any segmentation and scope- reduction controls. Application-layer penetration testing to identify, at a minimum, the vulnerabilities listed in Requirement 6.2.4. Network-layer penetration of threats and vulnerabilities experienced in the last 12 months.	

expiration.

#	Provisions for all PCI DSS V4.0 Requirements	Responsibility
	External penetration testing is performed:	I.T. Cybersecurity
	Per the entity's defined methodology.	
	 At least once every 12 months. After any significant infrastructure or application upgrade or change. 	
	By a qualified internal resource or qualified external third-party.	
	 Organizational independence of the tester exists (not required to be a QSA or ASV). 	
	Exploitable vulnerabilities and security weaknesses found during penetration testing are corrected as follows:	I.T. Cybersecurity
	 In accordance with the entity's assessment of the risk posed by the security issue as defined in Requirement 6.3.1. Penetration testing is repeated to verify the corrections. 	
	Penetration testing is repeated to verify the corrections.	
11 4 5	If segmentation is used to isolate the CDE from other networks, penetration tests are performed on segmentation	I.T. Cybersecurity
	controls as follows:	in cysersecurity
	 At least once every 12 months and after any changes to segmentation controls/methods 	
	 Covering all segmentation controls/methods in use. 	
	 According to the entity's defined penetration testing methodology. Confirming that the segmentation controls/methods are operational and effective, and isolate the CDE from all 	
	out-of-scope systems.	
	Confirming effectiveness of any use of isolation to separate systems with differing security levels (see	
	Requirement 2.2.3).	
	 Performed by a qualified internal resource or qualified external third party. 	
	 Organizational independence of the tester exists (not required to be a QSA or ASV). Additional requirement for service providers only. 	Not Applicable
	Additional requirement for multi-tenant service providers only.	Not Applicable
	Network intrusions and unexpected file changes are detected and responded to.	
	Intrusion-detection and/or intrusion-prevention techniques are used to detect and/or prevent intrusions into the	I.T. Cybersecurity
	 All traffic is monitored at the perimeter of the CDE. 	
	All traffic is monitored at the perimeter of the CDE. All traffic is monitored at critical points in the CDE.	
	Personnel are alerted to suspected compromises.	
	 All intrusion-detection and prevention engines, baselines, and signatures are kept up to date. 	
	Additional requirement for service providers only.	Not Applicable
	 A change-detection mechanism (for example, file integrity monitoring tools) is deployed as follows: To alert personnel to unauthorized modification (including changes, additions, and deletions) of critical files. 	I.T. Cybersecurity
	 To perform critical file comparisons at least once weekly. 	
	Unauthorized changes on payment pages are detected and responded to.	
	 A change- and tamper-detection mechanism is deployed as follows: To alert personnel to unauthorized modification (including indicators of compromise, changes, additions, and 	I.T. Cybersecurity
	 To all repersonner to unaution zea mountation (merualing maleators or compromise, enanges, additions, and 	
	deletions) to the HTTP headers and the contents of payment pages as received by the consumer browser.	
	 deletions) to the HTTP headers and the contents of payment pages as received by the consumer browser. The mechanism is configured to evaluate the received HTTP header and payment page. 	
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	 The mechanism is configured to evaluate the received HTTP header and payment page. The mechanism is configured to evaluate the received HTTP header and payment page. The mechanism functions are performed as follows: At least once every seven days 	
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12.4 12.4.1	Provisions for all PCI DSS V4.0 Requirements Hardware and software technologies in use are reviewed at least once every 12 months, including at least the following: Analysis that the technologies continue to receive security fixes from vendors promptly. Analysis that the technologies continue to support (and do not preclude) the entity's PCI DSS compliance. Documentation of any industry announcements or trends related to a technology, such as when a vendor has announced "end of life" plans for a technology. Documentation of a plan, approved by senior management, to remediate outdated technologies, including those for which vendors have announced "end of life" plans. PCI DSS compliance is managed. Additional requirement for service providers only. Additional requirement for service providers only.	Responsibility Departmental Not Applicable Not Applicable
	Additional requirement for service providers only. PCI DSS scope is documented and validated.	Not Applicable
	An inventory of system components that are in scope for PCI DSS, including a description of function/use, is	Departmental
	 maintained and kept current. 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 system components in the CDE, connected to the CDE, or that could impact security of the CDE. Identifying all connections from third-party entities with access to the CDE. Confirming that all identified data flows, account data, system components, segmentation controls, and connections from third-party entities with access. 	Departmental
12.5.2.1	Additional requirement for service providers only.	Not Applicable
	Additional requirement for service providers only. Security awareness education is an ongoing activity.	Not Applicable
	A formal security awareness program is implemented to make all personnel aware of the entity's information security	I.T. Cybersecurity / Compliance
	policy and procedures, and their role in protecting the cardholder data. The security awareness program is: • Reviewed at least once every 12 months, and • Updated as needed to address any new threats and vulnerabilities that may impact the security of the entity's CDE, or the information provided to personnel about their role in protecting cardholder data.	I.T. Cybersecurity / Compliance
	Personnel receive security awareness training as follows: • Upon hire and at least once every 12 months. • Multiple methods of communication are used. • Personnel acknowledge at least once every 12 months that they have read and understood the information security policy and procedures.	I.T. Cybersecurity / Compliance
12.6.3.1	Security awareness training includes awareness of threats and vulnerabilities that could impact the security of the CDE, including but not limited to: Phishing and related attacks. Social engineering. 	I.T. Cybersecurity / Compliance
12.6.3.2	Security awareness training includes awareness about the acceptable use of end-user technologies in accordance with Requirement 12.2.1.	I.T. Cybersecurity / Compliance
	Personnel are screened to reduce risks from insider threats. Potential personnel who will have access to the CDE are screened, within the constraints of local laws, prior to hire to	
	minimize the risk of attacks from internal sources.	numan resource
	Risk to information assets associated with third-party service provider (TPSP) relationships is managed. A list of all third-party service providers (TPSPs) with which account data is shared or that could affect the security of	Accounting Services
12.8.2	account data is maintained, including a description for each of the services provided. Written agreements with TPSPs are maintained as follows: Written agreements are maintained with all TPSPs with which account data is shared or that could affect the security of the CDE.	Contracting
	 Written agreements include acknowledgments from TPSPs that they are responsible for the security of account data the TPSPs posses or otherwise store, process, or transmit on behalf of the entity, or to the extent that they could impact the security of the entity's CDE. An established process is implemented for engaging TPSPs, including proper due diligence prior to engagement. 	Contracting
	A program is implemented to monitor TPSPs' PCI DSS compliance status at least once every 12 months. Information is maintained about which PCI DSS requirements are managed by each TPSP, which are managed by the entity, and any that are shared between the TPSP and the entity.	Accounting Services Contracting
	Third-Party Service Providers (TPSPs) support their customers' PCI DSS compliance.	
12.9.2 12.10. 12.10.1	Additional requirement for service providers only. Additional requirement for service providers only. Additional requirement for service providers only. Suspected and confirmed security incidents that could impact the CDE are responded to immediately. An incident response plan exists and is ready to be activated in the event of a suspected or confirmed security incident. The plan includes, but is not limited to: Roles, responsibilities, and communication and contact strategies in the event of a suspected or confirmed security incident, including notification of payment brands and acquirers, at a minimum. Incident response procedures with specific containment and mitigation activities for different types of incidents. Business recovery and continuity procedures. Data backup processes. Analysis of legal requirements for reporting compromises. Coverage and responses of all critical system components. Reference or inclusion of incident response procedures from the payment brands.	Not Applicable Not Applicable I.T. Cybersecurity Information Technology/Departmental
12.10.3	At least once every 12 months, the security incident response plan is: • Reviewed and the content is updated as needed. • Tested, including all elements listed in Requirement 12.10.1. Specific personnel are designated to be available on a 24/7 basis to respond to suspected or confirmed security incidents.	Information Assurance

#	Provisions for all PCI DSS V4.0 Requirements	Responsibility
12.10.4	Personnel responsible for responding to suspected and confirmed security incidents are appropriately and periodically trained on their incident response responsibilities.	Information Assurance
12.10.4.1	The frequency of periodic training for incident response personnel is defined in the entity's targeted risk analysis, which is performed according to all elements specified in Requirement 12.3.1.	I.T. Cybersecurity
12.10.5		I.T. Cybersecurity
	Intrusion-detection and intrusion-prevention systems. Network security controls.	
	Change-detection mechanisms for critical files.	
	The change-and tamper-detection mechanism for payment pages. This bullet is a best practice until its effective date; refer to Applicability Notes below for details.	
12.10.6	Detection of unauthorized wireless access points. The security incident response plan is modified and evolved according to lessons learned and to incorporate industry	Information Assurance
	developments.	
12.10.7	Incident response procedures are in place, to be	Information Assurance
	initiated upon the detection of stored PAN anywhere	
	it is not expected, and include: • Determining what to do if DAN is discovered outside the CDE including its retrieval, secure deletion, and/or	
	 Determining what to do if PAN is discovered outside the CDE, including its retrieval, secure deletion, and/or migration into the currently defined CDE, as applicable. 	
	Identifying whether sensitive authentication data is stored with PAN.	
	 Determining where the account data came from and how it ended up where it was not expected. 	
	Remediating data leaks or process gaps that resulted in the account data being where it was not expected.	
	Additional PCI DSS Requirements	
Appendix A1:	Additional PCI DSS Requirements for Multi-Tenant Service Providers. This Appendix is not used for merchant	
Annondix A2:	assessments. Additional PCI DSS Requirements for Entities using SSL/Early TLS for Card-Present POS POI Terminal Connections	
Appendix A2.	Additional PCI D35 Requirements for Entries using 35L/Early TLS for Card-Present POS POI Terminal Connections	
A2.1	POI terminals using SSL and/or early TLS are not susceptible to known SSL/TLS exploits.	
	Where POS POI terminals at the merchant or payment acceptance location use SSL and/or early TLS, the entity confirms the devices are not susceptible to any known exploits for those protocols.	Information Technology
A2.1.2	Additional requirement for service providers only.	Not Applicable
A2.1.3	Additional requirement for service providers only.	Not Applicable
Appendix A3:	Designated Entities Supplemental Validation (DESV)	

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