

## 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	
	Processes and mechanisms for installing and maintaining network security controls are defined and understood.	
	<ul> <li>All security policies and operational procedures that are identified in Requirement 1 are:</li> <li>Documented.</li> </ul>	
	Kept up to date.	
1.1.1	In use.     Known to all affected parties.	Information Assurance
1.1.1	• Known to an anetted parties.	
	Roles and responsibilities for performing activities in Requirement 1 are documented, assigned, and understood.	Information Assurance
	Network security controls (NSCs) are configured and maintained. Configuration standards for NSC rulesets are:	
	Defined.	
	Implemented.     Maintained.	Information Assurance
	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. An accurate network diagram(s) is maintained that shows all connections between the CDE and other networks,	Information Assurance
	including any wireless networks.	Network Operations
	An accurate data-flow diagram(s) is maintained that meets the following: <ul> <li>Shows all account data flows across systems and networks.</li> </ul>	
	Updated as needed upon changes to the environment.	Departmental
	All services, protocols and ports allowed are identified, approved, and have a defined business need.	IT CyberSecurity Office
	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.	IT CyberSecurity Office
1.2.7	Configurations of NSCs are reviewed at least once every six months to confirm they are relevant and effective.	IT CyberSecurity Office
	Configuration files for NSCs are: <ul> <li>Secured from unauthorized access.</li> </ul>	
	Kept consistent with active network configurations.	IT CyberSecurity Office
	Network access to and from the cardholder data environment is restricted.	
	Inbound traffic to the CDE is restricted as follows: • To only traffic that is necessary,	
1.3.1	All other traffic is specifically denied.	IT CyberSecurity Office / Network Operations
	Outbound traffic from the CDE is restricted as follows: • To only traffic that is necessary.	
1.3.2	All other traffic is specifically denied.	IT CyberSecurity Office / Network Operations
	NSCs are installed between all wireless networks and the CDE, regardless of whether the wireless network is a CDE, such that:	
	<ul> <li>All wireless traffic from wireless networks into the CDE is denied by default.</li> </ul>	
	Only wireless traffic with an authorized business purpose is allowed into the CDE.	Network Operations
	Network connections between trusted and untrusted networks are controlled. NSCs are implemented between trusted and untrusted networks.	IT CyberSecurity Office / Network Operations
	Inbound traffic from untrusted networks to trusted networks is restricted to:	
	<ul> <li>Communications with system components that are authorized to provide publicly accessible services, protocols, and ports.</li> </ul>	
	Stateful responses to communications initiated by system components in a trusted network.	
	<ul> <li>All other traffic is denied.</li> <li>Anti-spoofing measures are implemented to detect and block forged source IP addresses from entering the trusted</li> </ul>	IT CyberSecurity Office / Network Operations
	network.	IT CyberSecurity Office
	System components that store cardholder data are not directly accessible from untrusted networks.	IT CyberSecurity Office / Network Operations
	The disclosure of internal IP addresses and routing information is limited to only authorized parties. Risks to the CDE from computing devices that are able to connect to both untrusted networks and the CDE are	IT CyberSecurity Office / Network Operations
	mitigated.	
	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.	
	Specific configuration settings are defined to prevent threats being introduced into the entity's network.	
	<ul> <li>Security controls are actively running.</li> <li>Security controls are not alterable by users of the computing devices unless specifically documented and</li> </ul>	
	authorized by management on a case-by-case basis for a limited period.	IT CyberSecurity Office / Computer Services
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.	
	All security policies and operational procedures that are identified in Requirement 2 are:	
	Documented.     Kept up to date.	
	• In use.	
2.1.1	Known to all affected parties.	Information Assurance
	Roles and responsibilities for performing activities in Requirement 2 are documented, assigned, and understood.	Information Assurance
	System components are configured and managed securely. Configuration standards are developed, implemented, and maintained to:	
	Cover all system components.	
	Address all known security vulnerabilities.     Reconsistent with industry accounted system bardening standards or yender bardening recommendations	
	<ul> <li>Be consistent with industry-accepted system hardening standards or vendor hardening recommendations.</li> <li>Be updated as new vulnerability issues are identified, as defined in Requirement 6.3.1.</li> </ul>	
	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. Vendor default accounts are managed as follows:	Information Assurance
	<ul> <li>If the vendor default account(s) will be used, the default password is changed per Requirement 8.3.6.</li> </ul>	
2.2.2	<ul> <li>If the vendor default account(s) will not be used, the account is removed or disabled.</li> </ul>	Departmental

#	Provisions for all PCI DSS V4.0 Requirements Primary functions requiring different security levels are managed as follows: • Only one primary function exists on a system component,	Responsibility
	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	
2.2.3	required by the function with the highest security need. Only necessary services, protocols, daemons, and functions are enabled, and all unnecessary functionality is removed	IT CyberSecurity Office / Computer Services
2.2.4	or disabled.	Computer Services
	If any insecure services, protocols, or daemons are present: <ul> <li>Business justification is documented.</li> </ul>	
	Additional security features are documented and implemented that reduce the risk of using insecure services,	
		IT CyberSecurity Office / Computer Services
		IT CyberSecurity Office / Computer Services / Network Operations IT CyberSecurity Office
	Wireless environments are configured and managed securely.	
	For wireless environments connected to the CDE or transmitting account data, all wireless vendor defaults are changed at installation or are confirmed to be secure, including but not limited to:	
	Default wireless encryption keys.	
	Passwords on wireless access points.     SNMP defaults.	
2.3.1		Network Operations
	For wireless environments connected to the CDE or transmitting account data, wireless encryption keys are changed	
	<ul> <li>as follows:</li> <li>Whenever personnel with knowledge of the key leave the company or the role for which the knowledge was</li> </ul>	
	necessary.	
	Whenever a key is suspected of or known to be compromised.  Protect Stored Account Data	Network Operations
	Processes and mechanisms for protecting stored account data are defined and understood.	
	All security policies and operational procedures that are identified in Requirement 3 are: • Documented.	
	Kept up to date.	
211	In use.     Known to all affected parties.	Accounting Societor
3.1.1	Known to all affected parties.	Accounting Services
		Accounting Services
3.2	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	
	processes 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.	
	<ul> <li>Specific retention requirements for stored account data that defines length of retention period and includes a documented business justification.</li> </ul>	
	<ul> <li>Processes for secure deletion or rendering account data unrecoverable when no longer needed per the retention policy.</li> <li>A process for verifying, at least once every three months, that stored account data exceeding the defined retention period has</li> </ul>	
3.2.1	been securely deleted or rendered unrecoverable.	Departmental / Accounting Services
	Sensitive authentication data (SAD) is not stored after authorization.	
3.3.1	SAD is not retained after authorization, even if encrypted. All sensitive authentication data received is rendered unrecoverable upon completion of the authorization process.	Departmental
		Departmental
		Departmental Departmental
	SAD that is stored electronically prior to completion of authorization is encrypted using strong cryptography.	Departmental
	Additional requirement for service providers only Access to displays of full PAN and ability to copy PAN is restricted.	Not Applicable
5.4		
2 / 1	PAN is masked when displayed (the BIN and last four digits are the maximum number of digits to be displayed), such that only personnel with a legitimate business need can see more than the BIN and last four digits of the PAN.	Departmental
3.4.1	When using remote-access technologies, technical controls prevent copy and/or relocation of PAN for all personnel,	Departmental
	except for those with documented, explicit authorization and a legitimate, defined business need.	
3.5		Departmental
	Primary account number (PAN) is secured wherever it is stored. PAN is rendered unreadable anywhere it is stored by using any of the following approaches:	Departmental
	Primary account number (PAN) is secured wherever it is stored. PAN is rendered unreadable anywhere it is stored by using any of the following approaches: • One-way hashes based on strong cryptography of the entire PAN.	Departmental
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3.5.1.1 3.5.1.2 3.5.1.3	<ul> <li>Primary account number (PAN) is secured wherever it is stored.</li> <li>PAN is rendered unreadable anywhere it is stored by using any of the following approaches:</li> <li>One-way hashes based on strong cryptography of the entire PAN.</li> <li>Truncation (hashing cannot be used to replace the truncated segment of PAN).</li> <li>If hashed and truncated versions of the same PAN, or different truncation formats of the same PAN, are present in an environment, additional controls are in place such that the different versions cannot be correlated to reconstruct the original PAN</li> <li>Index tokens.</li> <li>Hashes used to render PAN unreadable (per the first bullet of Requirement 3.5.1), are keyed cryptographic hashes of the entire PAN, with associated key- management processes and procedures in accordance with Requirements 3.6 and 3.7.</li> <li>If disk-level or partition-level encryption (rather than file-, column-, or field-level database encryption) is used to render PAN unreadable (it is implemented only as follows:</li> <li>On removable electronic media, PAN is also rendered unreadable via another mechanism that meets Requirement 3.5.1.</li> <li>I disk-level or partition-level encryption is used (rather than file-, column-, or field-level database encryption) to render PAN unreadable, it is managed as follows:</li> <li>On removable electronic media, PAN is also rendered unreadable via another mechanism that meets Requirement 3.5.1.</li> <li>I disk-level or partition-level encryption is used (rather than file-, column-, or field-level database encryption) to render PAN unreadable, it is managed as follows:</li> <li>Logical access is managed separately and independently of native operating system authentication and access control mechanisms.</li> <li>Jourhenticators (passwords, passphrases, or cryptographic keys) that allow access to unencrypted data are stored securely.</li> <li>Cryptographic keys used to protect stored account data are secured.</li> </ul>	IT CyberSecurity Office IT CyberSecurity Office IT CyberSecurity Office
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3.5.1.1 3.5.1.2 3.5.1.3 3.6 3.6.1	<ul> <li>Primary account number (PAN) is secured wherever it is stored.</li> <li>PAN is rendered unreadable anywhere it is stored by using any of the following approaches: <ul> <li>One-way hashes based on strong cryptography of the entire PAN.</li> <li>Truncation (hashing cannot be used to replace the truncated segment of PAN).</li> <li>If hashed and truncated versions of the same PAN, or different truncation formats of the same PAN, are present in an environment, additional controls are in place such that the different versions cannot be correlated to reconstruct the original PAN</li> <li>Index tokens.</li> </ul> </li> <li>Hashes used to render PAN unreadable (per the first bullet of Requirement 3.5.1), are keyed cryptographic hashes of the entire PAN, with associated key-management processes and procedures in accordance with Requirements 3.6 and 3.7.</li> <li>If disk-level or partition-level encryption (rather than file-, column-, or field-level database encryption) is used to render PAN unreadable, it is implemented only as follows: <ul> <li>On removable electronic media. OR</li> </ul> </li> <li>If disk-level or partition-level encryption is used (rather than file-, column-, or field-level database encryption) to render PAN unreadable, it is managed as follows: <ul> <li>Logical access is managed separately and independently of native operating system authentication and access control mechanism.</li> <li>Decryption keys are not associated with user accounts.</li> <li>Authentication factors (passwords, passphrases, or cryptographic keys) that allow access to unencrypted data are stored securely.</li> </ul> </li> <li>Cryptographic keys used to protect stored account data are secured.</li> <li>Procedures are defined and implemented to protect cryptographic keys used to protect stored account data against disclosure and misuse that include: <ul> <li>Access to keys is restricted to the fewest number of custodians necessary.</li> <li>Key-encrypting keys are at least as strong as the data-encrypting keys they protec</li></ul></li></ul>	IT CyberSecurity Office IT CyberSecurity Office IT CyberSecurity Office

#	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	. ,
	forms at all times:	
	<ul> <li>Encrypted with a key-encrypting key that is at least as strong as the data-encrypting key, and that is stored</li> </ul>	
	separately from the data-encrypting key.	
	• Within a secure cryptographic device (SCD), such as a hardware security module (HSM) or PTS-approved point-of-	
	interaction device.	
	<ul> <li>As at least two full-length key components or key shares, in accordance with an industry-accepted method.</li> </ul>	IT CyberSecurity Office
	Access to cleartext cryptographic key components is restricted to the fewest number of custodians necessary.	IT CyberSecurity Office
3.6.1.4	Cryptographic keys are stored in the fewest possible locations.	IT CyberSecurity Office
	Where cryptography is used to protect stored account data, key-management processes and procedures covering all	
3.7	aspects of the key lifecycle are defined and implemented. Key-management policies and procedures are implemented to include generation of strong cryptographic keys used	
371	to protect stored account data.	IT CyberSecurity Office
	Key-management policies and procedures are implemented to include secure distribution of cryptographic keys used	
3.7.2	to protect stored account data.	IT CyberSecurity Office
	Key-management policies and procedures are implemented to include secure storage of cryptographic keys used to	
3.7.3	protect stored account data.	IT CyberSecurity Office
	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:	
	A defined cryptoperiod for each key type in use.	
3.7.4	<ul> <li>A process for key changes at the end of the defined cryptoperiod.</li> </ul>	IT CyberSecurity Office
	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:	
	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     company to the company, or the role for which the key company was known	
	<ul> <li>component leaves the company, or the role for which the key component was known.</li> <li>The key is suspected of or known to be compromised.</li> </ul>	
3.7 5	Retired or replaced keys are not used for encryption operations.	IT CyberSecurity Office / Network Operations
5.7.5	· · · · · · · · · · · · · · · · · · ·	.,,,
	Where manual cleartext cryptographic key-management operations are performed by personnel, key- management	
3.7.6	policies and procedures are implemented include managing these operations using split knowledge and dual control.	IT CyberSecurity Office
	Key-management policies and procedures are implemented to include the prevention of unauthorized substitution of	
3.7.7	cryptographic keys.	IT CyberSecurity Office
	Key-management policies and procedures are implemented to include that cryptographic key custodians formally	
378	acknowledge (in writing or electronically) that they understand and accept their key- custodian responsibilities.	IT CyberSecurity Office
	Additional requirement for service providers only	Not Applicable
	Protect Cardholder Data with Strong Cryptography During Transmission Over Open, Public Networks	en de la construcción de la constru La construcción de la construcción d
	Processes and mechanisms for protecting cardholder data with strong cryptography during transmission over open,	
4.1	public networks are defined and documented.	
	All security policies and operational procedures that are identified in Requirement 4 are:	
	Documented.     Kept up to date.	
	In use.	
4.1.1	Known to all affected parties.	Information Assurance
	Roles and responsibilities for performing activities in Requirement 4 are documented, assigned, and understood.	Information Assurance
	Roles and responsibilities for performing activities in Requirement 4 are documented, assigned, and understood. PAN is protected with strong cryptography during transmission.	Information Assurance
	PAN is protected with strong cryptography during transmission.	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	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 open, public networks: Only trusted keys	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 open, public networks:	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 open, public networks: and certificates are accepted. safeguard PAN during transmission over open, public networks are confirmed as valid and are not expired or revoked.	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 open, public networks:	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 open, public networks: and certificates are accepted. safeguard PAN during transmission over open, public networks are confirmed as valid and are not expired or revoked.	Information Assurance
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4.2 4.2.1 4.2.1.1 4.2.1.2	PAN is protected with strong cryptography during transmission. Strong cryptography and security protocols are implemented as follows to safeguard PAN during transmission over 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 insecure versions, algorithms, key sizes, or implementations. An inventory of the entity's trusted keys and certificates used to protect PAN during transmission is maintained. Wireless networks transmitting PAN or connected to the CDE use industry best practices to implement strong cryptography for authentication and transmission.	IT CyberSecurity Office IT CyberSecurity Office IT CyberSecurity Office
4.2 4.2.1 4.2.1.1 4.2.1.2 4.2.2	PAN is protected with strong cryptography during transmission. Strong cryptography and security protocols are implemented as follows to safeguard PAN during transmission over open, public networks:	IT CyberSecurity Office IT CyberSecurity Office
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4.2 4.2.1 4.2.1.1 4.2.1.2 4.2.2 5.1 5.1.1 5.1.2 5.2 5.2.1	PAN is protected with strong cryptography during transmission. Strong cryptography and security protocols are implemented as follows to safeguard PAN during transmission over open, public networks:	IT CyberSecurity Office IT CyberSecurity Office IT CyberSecurity Office IT CyberSecurity Office Information Assurance Information Assurance
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4.2 4.2.1 4.2.1.1 4.2.12 4.2.2 5.1 5.1 5.1 5.2 5.2 5.2.1 5.2.2 5.2.3 5.2.3 1 5.3	PAN is protected with strong cryptography during transmission. Strong cryptography and security protocols are implemented as follows to safeguard PAN during transmission over open, public networks:	IT CyberSecurity Office IT CyberSecurity Office IT CyberSecurity Office IT CyberSecurity Office Information Assurance Information Assurance IT CyberSecurity Office IT CyberSecurity Office IT CyberSecurity Office

#	Provisions for all PCI DSS V4.0 Requirements	Responsibility
	The anti-malware solution(s): Performs periodic scans and active or real-time scans	
	OR <ul> <li>Performs continuous behavioral analysis of systems or processes.</li> </ul>	IT CyberSecurity Office
5.3.2.1	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.	IT CyberSecurity Office
	For removable electronic media, the anti-malware solution(s): <ul> <li>Performs automatic scans of when the media is inserted, connected, or logically mounted,</li> <li>OR</li> </ul>	
	Performs continuous behavioral analysis of systems or processes when the media is inserted, connected, or	
5.3.4	logically mounted. Audit logs for the anti-malware solution(s) are enabled and retained in accordance with Requirement 10.5.1. Anti-malware mechanisms cannot be disabled or altered by users, unless specifically documented, and authorized by	IT CyberSecurity Office IT CyberSecurity Office
5.3.5	Anti-maiware mechanisms cannot be disabled of anered by users, unless specifically occurrenced, and autorized by management on a case-by-case basis for a limited time period. Anti-phishing mechanisms protect users against phishing attacks.	IT CyberSecurity Office
5.4.1	Processes and automated mechanisms are in place to detect and protect personnel against phishing attacks.	IT 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:	
	Documented.     Kept up to date.	
	In use.     Known to all affected parties.	Information Assurance
	Roles and responsibilities for performing activities in Requirement 6 are documented, assigned, and understood.	Information Assurance
	Bespoke and custom software are developed securely. Bespoke and custom software are developed securely, as follows: - Deced on givetse strandard, and (or best profiles for secure development	
	<ul> <li>Based on industry standards and/or best practices for secure development.</li> <li>In accordance with PCI DSS (for example, secure authentication and logging).</li> </ul>	
6.2.1	<ul> <li>Incorporating consideration of information security issues during each stage of the software development lifecycle.</li> </ul>	Software Application Support
	Software development personnel working on bespoke and custom software are trained at least once every 12 months as follows:	
	<ul> <li>On software security relevant to their job function and development languages.</li> <li>Including secure software design and secure coding techniques.</li> </ul>	
	<ul> <li>Including, if security testing tools are used, how to use the tools for detecting vulnerabilities in software.</li> <li>Bespoke and custom software is reviewed prior to being released into production or to customers, to identify and</li> </ul>	Software Application Support
	<ul> <li>correct potential coding vulnerabilities, as follows:</li> <li>Code reviews ensure code is developed according to secure coding guidelines.</li> </ul>	
	<ul> <li>Code reviews look for both existing and emerging software vulnerabilities.</li> <li>Appropriate corrections are implemented prior to release.</li> </ul>	Software Application Support
	If manual code reviews are performed for bespoke and custom software prior to release to production, code changes are:	
	<ul> <li>Reviewed by individuals other than the originating code author, and who are knowledgeable about code-review techniques and secure coding practices.</li> </ul>	
6.2.3.1	Reviewed and approved by management prior to release.	Software Application Support
	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 but not limited to the following: <ul> <li>Injection attacks, including SQL,</li> </ul>	
	<ul> <li>LDAP, XPath, or other command, parameter, object, fault, or injection-type flaws.</li> <li>Attacks on data and data structures, including attempts to manipulate buffers, pointers, input data, or shared data.</li> </ul>	
	<ul> <li>Attacks on cryptography usage, including attempts to exploit weak, insecure, or inappropriate cryptographic implementations, algorithms, cipher suites, or modes of operation.</li> <li>Attacks on business logic, including attempts to</li> </ul>	
	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	
	<ul> <li>scripting (XSS) and cross-site request forgery (CSRF).</li> <li>Attacks on access control mechanisms, including attempts to bypass or abuse identification, authentication, or</li> </ul>	
	<ul> <li>authorization mechanisms, or attempts to exploit weaknesses in the implementation of such mechanisms.</li> <li>Attacks via any "high-risk" vulnerabilities identified in the vulnerability identification process, as defined in</li> </ul>	
	Requirement 6.3.1. Security vulnerabilities are identified and addressed.	Software Application Support
	Security vulnerabilities are identified and managed as follows: <ul> <li>New security vulnerabilities are identified using industry- recognized sources for security vulnerability</li> </ul>	
	<ul> <li>information, including alerts from international and national computer emergency response teams (CERTs).</li> <li>Vulnerabilities are assigned a risk ranking based on industry best practices and consideration of potential impact.</li> </ul>	
	<ul> <li>Risk rankings identify, at a minimum, all vulnerabilities considered to be a high-risk or critical to the environment.</li> <li>Vulnerabilities for bespoke and custom, and third-party software (for example operating systems and databases)</li> </ul>	
	are covered. An inventory of bespoke and custom software, and third- party software components incorporated into bespoke and	IT CyberSecurity Office
	custom software is maintained to facilitate vulnerability and patch management. All system components are protected from known vulnerabilities by installing applicable security patches/updates as	Information Assurance
	follows: <ul> <li>Critical or high-security patches/updates (identified according to the risk ranking process at Requirement</li> </ul>	
	<ul> <li>6.3.1) are installed within one month of release.</li> <li>All other applicable security patches/updates are installed within an appropriate time frame as determined by the</li> </ul>	
	entity (for example, within three months of release). Public-facing web applications are protected against attacks.	IT CyberSecurity Office / Datacenter Operations / Computer Services

<ul> <li>A control for each body each system is a second and priority of a second and priori</li></ul>	#	Provisions for all PCI DSS V4.0 Requirements	Responsibility
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Automation     A	6.4.1	<ul> <li>Configured to either block web-based attacks or generate an alert that is immediately investigated.</li> </ul>	IT CyberSecurity Office / Datacenter Operations
<ul> <li>e. is initialized in four of patients any applicable.</li> <li>e. denoted y many and y a det as any applicable.</li> <li>e. denoted y many applicable.</li> <li>e. denoted y</li></ul>		For public-facing web applications, an automated technical solution is deployed that continually detects and prevents	
<ul> <li>Actively running and up that is significable.</li> <li>Configured to effer for the stability of the stabilit</li></ul>			
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#	Provisions for all PCI DSS V4.0 Requirements	Responsibility
	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:	
	Documented.     Ket us to determine the determined of the det	
	Kept up to date.     In use.	
8.1.1	Known to all affected parties.	Accounting Services
8.1.2	Roles and responsibilities for performing activities in Requirement 8 are documented, assigned, and understood.	Accounting Services
	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	
	<ul> <li>exception basis, and are managed as follows:</li> <li>Account use is prevented unless needed for an exceptional circumstance.</li> </ul>	
	Use is limited to the time needed for the exceptional circumstance.	
	Business justification for use is documented.     Use is explicitly approved by management.	
	<ul> <li>Individual user identity is confirmed before access to an account is granted.</li> </ul>	
	<ul> <li>Every action taken is attributable to an individual user.</li> <li>Additional requirement for service providers only</li> </ul>	IT CyberSecurity Office / Departmental Not Applicable
	Addition, deletion, and modification of user IDs, authentication factors, and other identifier objects are managed as	
	follows: <ul> <li>Authorized with the appropriate approval.</li> </ul>	
8.2.4	<ul> <li>Implemented with only the privileges specified on the documented approval.</li> </ul>	Departmental
	Access for terminated users is immediately revoked.	Departmental
	Inactive user accounts are removed or disabled within 90 days of inactivity. Accounts used by third parties to access, support, or maintain system components via remote access are managed a	Departmental as
	follows:	
8.2.7	<ul> <li>Enabled only during the time period needed and disabled when not in use.</li> <li>Use is monitored for unexpected activity.</li> </ul>	All Users
	If a user session has been idle for more than 15 minutes, the user is required to re-authenticate to re- activate the	
	terminal or session. Strong authentication for users and administrators is established and managed.	IT CyberSecurity Office / Data Center / Departmental
	All user access to system components for users and administrators is authenticated via at least one of the following	
	authentication factors: <ul> <li>Something you know, such as a password or passphrase.</li> </ul>	
	<ul> <li>Something you have, such as a token device or smart card.</li> </ul>	
	<ul> <li>Something you are, such as a biometric element.</li> <li>Strong cryptography is used to render all authentication factors unreadable during transmission and storage on all</li> </ul>	IT CyberSecurity Office / Data Center / Departmental
8.3.2	system components.	IT CyberSecurity Office / Data Center / Departmental
	User identity is verified before modifying any authentication factor. Invalid authentication attempts are limited by:	IT CyberSecurity Office / Data Center / Departmental
	<ul> <li>Locking out the user ID after not more than 10 attempts.</li> </ul>	
	<ul> <li>Setting the lockout duration to a minimum of 30 minutes or until the user's identity is confirmed.</li> <li>If passwords/passphrases are used as authentication factors to meet Requirement 8.3.1, they are set and reset for</li> </ul>	IT CyberSecurity Office / Data Center / Departmental
	each user as follows:	
8.3.5	<ul> <li>Set to a unique value for first-time use and upon reset.</li> <li>Forced to be changed immediately after the first use.</li> </ul>	IT CyberSecurity Office / Data Center / Departmental
	If passwords/passphrases are used as authentication factors to meet Requirement 8.3.1, they meet the following	
	<ul> <li>Minimum level of complexity:</li> <li>A minimum length of 12 characters (or IF the system does not support 12 characters, a minimum length of eight</li> </ul>	
	characters).	
	<ul> <li>Contain both numeric and alphabetic characters.</li> <li>Individuals are not allowed to submit a new password/passphrase that is the same as any of the last four</li> </ul>	IT CyberSecurity Office / Data Center / Departmental
8.3.7	passwords/passphrases used.	IT CyberSecurity Office / Data Center / Departmental
	Authentication policies and procedures are documented and communicated to all users including: <ul> <li>Guidance on selecting strong authentication factors.</li> </ul>	
	Guidance for how users should protect their authentication factors.	
	<ul> <li>Instructions not to reuse previously used passwords/passphrases.</li> <li>Instructions to change passwords/passphrases if there is any suspicion or knowledge that the</li> </ul>	
	password/passphrases have been compromised and how to report the incident.	IT CyberSecurity Office / Data Center / Departmental
	If passwords/passphrases are used as the only authentication factor for user access (i.e., in any single-factor authentication implementation) then either:	
	<ul> <li>Passwords/passphrases are changed at least once every 90 days,</li> </ul>	
	<ul> <li>OR</li> <li>The security posture of accounts is dynamically analyzed, and real-time access to resources is automatically</li> </ul>	
	determined accordingly.	IT CyberSecurity Office / Data Center / Departmental
	Additional requirement for service providers only Additional requirement for service providers only	Not Applicable Not Applicable
	Where authentication factors such as physical or logical security tokens, smart cards, or certificates are used:	
8.3.11	<ul> <li>Factors are assigned to an individual user and not shared among multiple users.</li> <li>Physical and/or logical controls ensure only the intended user can use that factor to gain access.</li> </ul>	IT CyberSecurity Office / Data Center / Departmental
	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.	IT CyberSecurity Office / Data Center / Departmental IT CyberSecurity Office / Data Center / Departmental
	·	
	MFA is implemented for all remote network access originating from outside the entity's network that could access impact the CDE as follows:	זנ
	• All remote access by all personnel, both users and administrators, originating from outside the entity's network	
	<ul> <li>All remote access by third parties and vendors.</li> <li>Multi-factor authentication (MFA) systems are configured to prevent misuse.</li> </ul>	IT CyberSecurity Office / Data Center / Departmental
	MFA systems are implemented as follows: •	
	The MFA system is not susceptible to replay attacks. • MF/ systems cannot be bypassed by any users, including administrative users unless specifically documented, and	λ
	authorized by management on an	
	exception basis, for a limited time period. <ul> <li>least two different types of authentication factors are used.</li> <li>Succi</li> </ul>	
8.5.1	of all authentication factors is required before access is granted.	IT CyberSecurity Office / Data Center / Departmental
8.6	Use of application and system accounts and associated authentication factors is strictly managed.	

	Provisions for all PCI DSS V4.0 Requirements If accounts used by systems or applications can be used for interactive login, they are managed as follows: Interactive use is prevented unless needed for an exceptional circumstance.	Responsibility
	Interactive use is prevented unless needed for the exceptional circumstance. 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.	
	<ul> <li>Individual user identity is confirmed before access to account is granted.</li> </ul>	
	<ul> <li>Every action taken is attributable to an individual user.</li> <li>Passwords/passphrases for any application and system accounts that can be used for interactive login are not hard</li> </ul>	IT CyberSecurity Office / Data Center / Departmental
	coded in scripts, configuration/property files, or bespoke and custom source code.	Departmental / Software Application Support
	Passwords/passphrases for any application and system accounts are protected against misuse as follows:	
	Passwords/passphrases are changed periodically (at the frequency defined in the entity's targeted risk analysis,	
	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.	IT CyberSecurity Office / Data Center / Departmental
	Restrict Physical Access to Cardholder Data Processes and mechanisms for restricting physical access to cardholder data are defined and understood.	
	All security policies and operational procedures that are identified in Requirement 9 are:	
	Documented.	
	Kept up to date.     In use.	
9.1.1	Known to all affected parties.	Information Assurance
	Roles and responsibilities for performing activities in Requirement 9 are documented, assigned, and understood. Physical access controls manage entry into facilities and systems containing cardholder data.	Information Assurance
	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:	
	<ul> <li>Entry and exit points to/from sensitive areas within the CDE are monitored.</li> <li>Monitoring devices or mechanisms are protected from tampering or disabling.</li> </ul>	
	<ul> <li>Collected data is reviewed and correlated with other entries.</li> </ul>	
9.2.1.1	Collected data is stored for at least three months, unless otherwise restricted by law.	Departmental / Police Department
	Physical and/or logical controls are implemented to restrict use of publicly accessible network jacks within the facility. Physical access to wireless access points, gateways, Network Operations/communications hardware, and	Network Operations / Departmental
	telecommunication lines within the facility is restricted.	Network Operations
	Access to consoles in sensitive areas is restricted via locking when not in use. Physical access for personnel and visitors is authorized and managed.	IT CyberSecurity Office / Departmental
	Provide access for personnel and visitors is authorized and managed. Procedures are implemented for authorizing and managing physical access of personnel to the CDE, including:	
	Identifying personnel.	
	Managing changes to an individual's physical access requirements.	
	<ul> <li>Revoking or terminating personnel identification.</li> <li>Limiting access to the identification process or system to authorized personnel.</li> </ul>	Departmental
	Physical access to sensitive areas within the CDE for personnel is controlled as follows:	
	Access is authorized and based on individual job function.	
	<ul> <li>Access is revoked immediately upon termination.</li> <li>All physical access mechanisms, such as keys, access cards, etc., are returned or disabled upon termination.</li> </ul>	Departmental
	Procedures are implemented for authorizing and managing visitor access to the CDE, including:	
	Visitors are authorized before entering.	
	<ul> <li>Visitors are escorted at all times.</li> <li>Visitors are clearly identified and given a badge or other identification that expires.</li> </ul>	
	<ul> <li>Visitor badges or other identification visibly distinguishes visitors from personnel.</li> </ul>	Departmental
	Visitor badges or identification are surrendered or deactivated before visitors leave the facility or at the date of	- · · · · ·
	expiration. 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.	
	<ul> <li>The date and time of the visit.</li> <li>The name of the personnel authorizing physical access.</li> </ul>	
	<ul> <li>Retaining the log for at least three months, unless otherwise restricted by law.</li> </ul>	Departmental
	Media with cardholder data is securely stored, accessed, distributed, and destroyed.	
	All media with cardholder data is physically secured. Offline media backups with cardholder data are stored in a secure location.	Departmental Departmental
5		
	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. Media with cardholder data sent outside the facility is secured as follows:	I.T. Cybersecurity / Compliance / Departmental
	<ul> <li>Media sent outside the facility is logged.</li> </ul>	
	<ul> <li>Media is sent by secured courier or other delivery method that can be accurately tracked.</li> </ul>	
	<ul> <li>Offsite tracking logs include details about media location.</li> <li>Management approves all media with cardholder data that is moved outside the facility (including when media is</li> </ul>	Departmental
	distributed to individuals).	Departmental
9.4.5	Inventory logs of all electronic media with cardholder data are maintained.	Departmental
	Inventories of electronic media with cardholder data are conducted at least once every 12 months. Hard-copy materials with cardholder data are destroyed when no longer needed for business or legal reasons, as	Departmental
	Hard-copy materials with cardholder data are destroyed when no longer needed for business of legal reasons, as follows:	
	Materials are cross-cut shredded, incinerated, or pulped so that cardholder data cannot be reconstructed.	
	Materials are stored in secure storage containers prior to destruction.  Electronic media with cardholder data is destroyed when no longer needed for business or legal reasons via one of	Departmental
	Electronic media with cardholder data is destroyed when no longer needed for business or legal reasons via one of the following:	
	The electronic media is destroyed.	
9.4.7	<ul> <li>The cardholder data is rendered unrecoverable so that it cannot be reconstructed.</li> </ul>	Departmental
	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	
	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.	
	Periodically inspecting POI devices to look for tampering or unauthorized substitution.	
	<ul> <li>Training personnel to be aware of suspicious behavior and to report tampering or unauthorized substitution of devices.</li> </ul>	Departmental
	devices.	Departmental

	Provisions for all PCI DSS V4.0 Requirements An up-to-date list of POI devices is maintained, including: • Make and model of the device.	Responsibility
	<ul> <li>Location of device.</li> <li>Device serial number or other methods of unique identification.</li> <li>POI device surfaces are periodically inspected to detect tampering and unauthorized substitution.</li> </ul>	Departmental / Accounting Services Departmental
	The frequency of periodic POI device inspections and the type of inspections performed is defined in the entity's targeted risk analysis, which is performed according to all elements specified in Requirement 12.3.1.	Departmental
	Training is provided for personnel in POI environments to be aware of attempted tampering or replacement of POI devices, and includes: • Verifying the identity of any third-party persons claiming to be repair or maintenance personnel, before granting them access to modify or troubleshoot devices.	
	<ul> <li>Procedures to ensure devices are not installed, replaced, or returned without verification.</li> <li>Being aware of suspicious behavior around devices.</li> </ul>	
	Reporting suspicious behavior and indications of device tampering or substitution to appropriate personnel.	Compliance
10	Log and Monitor All Access to System Components and Cardholder Data Processes and mechanisms for logging and monitoring all access to system components and cardholder data are	
	defined and documented.	
	<ul> <li>All security policies and operational procedures that are identified in Requirement 10 are:</li> <li>Documented.</li> <li>Kept up to date.</li> </ul>	
10.1.1	In use.     Known to all affected parties.	Information Assurance
	Roles and responsibilities for performing activities in Requirement 10 are documented, assigned, and understood. Audit logs are implemented to support the detection of anomalies and suspicious activity, and the forensic analysis of events.	Information Assurance
	Audit logs are enabled and active for all system components and cardholder data.	I.T. Cybersecurity
	Audit logs capture all individual user access to cardholder data. Audit logs capture all actions taken by any individual with administrative access, including any interactive use of	I.T. Cybersecurity
	application or system accounts.	I.T. Cybersecurity
	Audit logs capture all access to audit logs.	I.T. Cybersecurity
	Audit logs capture all invalid logical access attempts. Audit logs capture all changes to identification and authentication credentials including, but not limited to: • Creation of new accounts. • Elevation of privileges.	I.T. Cybersecurity
	All changes, additions, or deletions to accounts with administrative access.     Audit logs capture the following:     All initialization of new audit logs, and	I.T. Cybersecurity
10.2.1.6	<ul> <li>All starting, stopping, or pausing of the existing audit logs.</li> </ul>	I.T. Cybersecurity
10.2.1.7	Audit logs capture all creation and deletion of system-level objects.	I.T. Cybersecurity
	<ul> <li>Type of event.</li> <li>Date and time.</li> <li>Success and failure indication.</li> <li>Origination of event.</li> </ul>	17.0 (1999)
	<ul> <li>Identity or name of affected data, system component, resource, or service (for example, name and protocol).</li> <li>Audit logs are protected from destruction and unauthorized modifications.</li> </ul>	I.T. Cybersecurity
	Read access to audit logs files is limited to those with a job-related need.	I.T. Cybersecurity
10.3.2	Audit log files are protected to prevent modifications by individuals. Audit log files, including those for external-facing technologies, are promptly backed up to a secure, central, internal	I.T. Cybersecurity
	log server(s) or other media that is difficult to modify. File integrity monitoring or change-detection mechanisms is used on audit logs to ensure that existing log data cannot	
	be changed without generating alerts. Audit logs are reviewed to identify anomalies or suspicious activity.	I.T. Cybersecurity
	The following audit logs are reviewed at least once daily: <ul> <li>All security events.</li> <li>Logs of all system components that store, process, or transmit CHD and/or SAD.</li> </ul>	
	Logs of all critical system components.	
10.4.1	<ul> <li>Logs of all servers and system components that perform security functions (for example, network security controls, intrusion-detection systems/intrusion-prevention systems (IDS/IPS), authentication servers).</li> </ul>	I.T. Cybersecurity
10.4.1.1	Automated mechanisms are used to perform audit log reviews.	I.T. Cybersecurity
	Logs of all other system components (those not specified in Requirement 10.4.1) are reviewed periodically. The frequency of periodic log reviews for all other system components (not defined in Requirement 10.4.1) is defined	I.T. Cybersecurity
	in the entity's targeted risk analysis, which is performed according to all elements specified in Requirement 12.3.1.	I.T. Cybersecurity
	Exceptions and anomalies identified during the review process are addressed. Audit log history is retained and available for analysis.	I.T. Cybersecurity
10.5.1	Retain audit log history for at least 12 months, with at least the most recent three months immediately available for analysis.	I.T. Cybersecurity
10.6	Time-synchronization mechanisms support consistent time settings across all systems. System clocks and time are synchronized using time-synchronization technology.	I.T Data Center
	Systems are configured to the correct and consistent time as follows: • One or more designated time servers are in use. • Only the designated central time server(s) receives time from external sources. • Time received from external sources is based on International Atomic Time or Coordinated Universal Time (UTC). • The designated time server(s) accept time updates only from specific industry-accepted external sources. • Where there is more than one designated time server, the time servers peer with one another to keep accurate	
10.6.2	<ul> <li>time.</li> <li>Internal systems receive time information only from designated central time server(s).</li> <li>Time synchronization settings and data are protected as follows:</li> <li>Access to time data is restricted to only personnel with a business need.</li> </ul>	I.T Data Center
10.6.3	Any changes to time settings on critical systems are logged, monitored, and reviewed.	I.T Data Center
	Failures of critical security control systems are detected, reported, and responded to promptly. Additional requirement for service providers only	Not Applicable

#	Provisions for all PCI DSS V4.0 Requirements	Responsibility
	Failures of critical security control systems are detected, alerted, and addressed promptly, including but not limited to	
	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.	
	<ul> <li>Segmentation controls (if used).</li> </ul>	
	Audit log review mechanisms.	
	Automated security testing tools (if used).	I.T. Cybersecurity
	Failures of any critical security controls systems are responded to promptly, including but not limited to:	
	<ul> <li>Restoring security functions.</li> <li>Identifying and documenting the duration (date and time from start to end) of the security failure.</li> </ul>	
	<ul> <li>Identifying and documenting the cause(s) of failure and documenting required remediation.</li> </ul>	
	<ul> <li>Identifying and addressing any security issues that arose during the failure.</li> </ul>	
	<ul> <li>Determining whether further actions are required as a result of the security failure.</li> </ul>	
	<ul> <li>Implementing controls to prevent the cause of failure from reoccurring.</li> </ul>	
	Resuming monitoring of security controls.	I.T. Cybersecurity
	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:	
	Documented.     Kept up to date.	
	In use.	
	Known to all affected parties.	Information Technology
	·····	
11.1.2	Roles and responsibilities for performing activities in Requirement 11 are documented, assigned, and understood.	Information Technology
11.2	Wireless access points are identified and monitored, and unauthorized wireless access points are addressed.	
	Authorized and unauthorized wireless access points are managed as follows:	
	<ul> <li>The presence of wireless (Wi-Fi) access points is tested for.</li> </ul>	
	<ul> <li>All authorized and unauthorized wireless access points are detected and identified.</li> </ul>	
	Testing, detection, and identification occurs at least once every three months.	
	<ul> <li>If automated monitoring is used, personnel are notified via generated alerts.</li> </ul>	Information Assurance
	An inventory of authorized wireless access points is maintained, including a documented business justification. External and internal vulnerabilities are regularly identified, prioritized, and addressed.	Network Operations
11.5		
	Internal vulnerability scans are performed as follows:	
	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.	
	<ul> <li>Rescans are performed that confirm all high-risk and critical vulnerabilities (as noted above) have been resolved.</li> </ul>	
	<ul> <li>Scan tool is kept up to date with latest vulnerability information.</li> </ul>	
	Scans are performed by qualified personnel and organizational independence of the tester exists.	I.T. Cybersecurity
	All other applicable vulnerabilities (those not ranked as high-risk or critical (per the entity's vulnerability risk rankings	
	defined at Requirement 6.3.1) are managed as follows:	
	<ul> <li>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.</li> </ul>	
	Rescans are conducted as needed.	I.T. Cybersecurity
	Internal vulnerability scans are performed via authenticated scanning as follows:	
	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	
11.3.1.2	authenticated scanning can be used for interactive login, they are managed in accordance with Requirement 8.2.2.	I.T. Cybersecurity
	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	
	resolved.	
	<ul> <li>Rescans are conducted as needed.</li> <li>Search are performed by qualified percented and exceptional independence of the textor evicts (not required to a second secon</li></ul>	
	<ul> <li>Scans are performed by qualified personnel and organizational independence of the tester exists (not required to be a QSA or ASV).</li> </ul>	I.T. Cybersecurity
	be a QSA or ASV). External vulnerability scans are performed as follows:	I.I. CYDEISELUIILY
	At least once every three months.	
	By a PCI SSC Approved Scanning Vendor (ASV)	
	<ul> <li>Vulnerabilities are resolved and ASV Program Guide requirements for a passing scan are met.</li> </ul>	
	Rescans are performed as needed to confirm that vulnerabilities are resolved per the ASV Program Guide	
11.3.2	requirements for a passing scan.	I.T. Cybersecurity
	External vulnerability scans are performed after any significant change as follows:	
	<ul> <li>Vulnerabilities that are scored 4.0 or higher by the CVSS are resolved.</li> </ul>	
	Rescans are conducted as needed.	
	• Scans are performed by qualified personnel and organizational independence of the tester exists (not required to	LT Cuberroquity
	be a QSA or ASV). External and internal penetration testing is regularly performed, and exploitable vulnerabilities and security	I.T. Cybersecurity
	weaknesses are corrected.	
11.4		
	A penetration testing methodology is defined, documented, and implemented by the entity, and includes:	
	<ul> <li>Industry-accepted penetration testing approaches.</li> </ul>	
	<ul> <li>Coverage for the entire CDE perimeter and critical systems.</li> </ul>	
	<ul> <li>Testing from both inside and outside the network.</li> </ul>	
	<ul> <li>Testing to validate any segmentation and scope- reduction controls.</li> </ul>	
	Application-layer penetration testing to identify, at a minimum, the vulnerabilities listed in Requirement 6.2.4.	
	Network-layer penetration tests that encompass all components that support network functions as well as	
	operating systems.	
	Review and consideration of threats and vulnerabilities experienced in the last 12 months.	
	<ul> <li>Documented approach to assessing and addressing the risk posed by exploitable vulnerabilities and security</li> </ul>	
	weaknesses found during penetration testing.	LT Cuberroquity
	<ul> <li>Retention of penetration testing results and remediation activities results for at least 12 months.</li> <li>Visitor badges or identification are surrendered or deactivated before visitors leave the facility or at the date of</li> </ul>	I.T. Cybersecurity
		Departmental
	expiration.	Departmental

#	Provisions for all PCI DSS V4.0 Requirements	Responsibility
E	ternal penetration testing is performed:	
•	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.	
11.4.3 •	Organizational independence of the tester exists (not required to be a QSA or ASV).	I.T. Cybersecurity
Đ	ploitable vulnerabilities and security weaknesses found during penetration testing are corrected as follows:	
•	In accordance with the entity's assessment of the risk posed by the security issue as defined in Requirement 6.3.1.	
11.4.4 •	Penetration testing is repeated to verify the corrections.	I.T. Cybersecurity
If	segmentation is used to isolate the CDE from other networks, penetration tests are performed on segmentation	
	ntrols as follows:	
	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	
	it-of-scope systems.	
	Confirming effectiveness of any use of isolation to separate systems with differing security levels (see equirement 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).	I.T. Cybersecurity
	Iditional requirement for service providers only.	Not Applicable
	Iditional requirement for multi-tenant service providers only.	Not Applicable
	etwork intrusions and unexpected file changes are detected and responded to.	
	trusion-detection and/or intrusion-prevention techniques are used to detect and/or prevent intrusions into the	
	etwork as follows:	
	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.	I.T. Cybersecurity
11.5.1.1 A	dditional requirement for service providers only.	Not Applicable
Δ	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.	
	To perform critical file comparisons at least once weekly.	I.T. Cybersecurity
	nauthorized changes on payment pages are detected and responded to.	
A	change- and tamper-detection mechanism is deployed as follows: • To	
al	ert personnel to unauthorized modification (including indicators of compromise, changes, additions, and deletions)	
	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. • The	
	echanism is configured to evaluate the received HTTP header and payment page.	
•	The mechanism functions are performed as follows:	
•	The mechanism functions are performed as follows: At least once every seven days	
• - 0	The mechanism functions are performed as follows: At least once every seven days R	
•  0	The mechanism functions are performed as follows: At least once every seven days R Periodically (at the frequency defined in the entity's targeted risk analysis, which is performed according to all	LT Cubersecurity
• - 0 - 11.6.1 el	The mechanism functions are performed as follows: At least once every seven days R Periodically (at the frequency defined in the entity's targeted risk analysis, which is performed according to all ements specified in Requirement 12.3.1).	I.T. Cybersecurity
• O – 11.6.1 el 12 Su	The mechanism functions are performed as follows: At least once every seven days R Periodically (at the frequency defined in the entity's targeted risk analysis, which is performed according to all	I.T. Cybersecurity
• O – 11.6.1 el <b>12 St</b> A 12.1 in	The mechanism functions are performed as follows: At least once every seven days Periodically (at the frequency defined in the entity's targeted risk analysis, which is performed according to all ements specified in Requirement 12.3.1). pport information Security with Organizational Policies and Programs comprehensive information security policy that governs and provides direction for protection of the entity's formation assets is known and current.	I.T. Cybersecurity
• O - 11.6.1 el 12 Su A 12.1 in Ar	The mechanism functions are performed as follows: At least once every seven days Periodically (at the frequency defined in the entity's targeted risk analysis, which is performed according to all ements specified in Requirement 12.3.1). pport Information Security with Organizational Policies and Programs comprehensive information security policy that governs and provides direction for protection of the entity's formation assets is known and current. n overall information security policy is:	I.T. Cybersecurity
• O - 11.6.1 el 12 Su A 12.1 in Ar	The mechanism functions are performed as follows: At least once every seven days Periodically (at the frequency defined in the entity's targeted risk analysis, which is performed according to all ements specified in Requirement 12.3.1). pport Information Security with Organizational Policies and Programs comprehensive information security policy that governs and provides direction for protection of the entity's formation assets is known and current. overall information security policy is: Established.	I.T. Cybersecurity
•  11.6.1 el 12 St A 12.1 in Ar	The mechanism functions are performed as follows: At least once every seven days Periodically (at the frequency defined in the entity's targeted risk analysis, which is performed according to all ements specified in Requirement 12.3.1). port Information Security with Organizational Policies and Programs comprehensive information security policy that governs and provides direction for protection of the entity's formation assets is known and current. o verall information security policy is: Established.	I.T. Cybersecurity
•  0  11.6.1 el 12 St A 12.1 in Ar • •	The mechanism functions are performed as follows: At least once every seven days Periodically (at the frequency defined in the entity's targeted risk analysis, which is performed according to all ements specified in Requirement 12.3.1). pport Information Security with Organizational Policies and Programs comprehensive information security policy that governs and provides direction for protection of the entity's formation assets is known and current. n overall information security policy is: Established. Maintained.	
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#	Provisions for all PCI DSS V4.0 Requirements	Responsibility
	Hardware and software technologies in use are reviewed at least once every 12 months, including at least the	
	<ul> <li>following:</li> <li>Analysis that the technologies continue to receive security fixes from vendors promptly.</li> </ul>	
	Analysis that the technologies continue to support (and do not preclude) the entity's PCI DSS compliance.	
	<ul> <li>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.</li> </ul>	
	Documentation of a plan, approved by senior management, to remediate outdated technologies, including those	
	for which vendors have announced "end of life" plans.	Departmental
	PCI DSS compliance is managed. Additional requirement for service providers only.	Not Applicable
12.4.2	Additional requirement for service providers only.	Not Applicable
	Additional requirement for service providers only. PCI DSS scope is documented and validated.	Not Applicable
12.5	An inventory of system components that are in scope for PCI DSS, including a description of function/use, is	
12.5.1	maintained and kept current.	Departmental
	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: 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).	
	<ul> <li>Updating all data-flow diagrams per requirement 1.2.4.</li> <li>Identifying all locations where account data is stored, processed, and transmitted, including but not limited to: 1) any</li> </ul>	
	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.	
	<ul> <li>Identifying all segmentation controls in use and the environment(s) from which the CDE is segmented, including</li> </ul>	
	justification for environments being out of scope. 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 parties with access to the CDE are included in scope.	Departmental
	Additional requirement for service providers only. Additional requirement for service providers only.	Not Applicable Not Applicable
12.6	Security awareness education is an ongoing activity.	
12.6.1	A formal security awareness program is implemented to make all personnel aware of the entity's information security policy and procedures, and their role in protecting the cardholder data.	I.T. Cybersecurity / Compliance
	The security awareness program is:	
	<ul> <li>Reviewed at least once every 12 months, and</li> <li>Updated as needed to address any new threats and vulnerabilities that may impact the security of the entity's</li> </ul>	
12.6.2	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.	
1262	<ul> <li>Personnel acknowledge at least once every 12 months that they have read and understood the information security policy and procedures.</li> </ul>	I.T. Cybersecurity / Compliance
12.0.5	Security policy and procedures. Security awareness training includes awareness of threats and vulnerabilities that could impact the security of the	1.1. Cybersecurity / compliance
	CDE, including but not limited to:	
12.6.3.1	<ul> <li>Phishing and related attacks.</li> <li>Social engineering.</li> </ul>	I.T. Cybersecurity / Compliance
12 6 2 2	Security awareness training includes awareness about the acceptable use of end-user technologies in accordance with	
	Requirement 12.2.1. Personnel are screened to reduce risks from insider threats.	I.T. Cybersecurity / Compliance
12 7 1	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. Risk to information assets associated with third-party service provider (TPSP) relationships is managed.	Human resource
	A list of all third-party service providers (TPSPs) with which account data is shared or that could affect the security of	
12.8.1	account data is maintained, including a description for each of the services provided. Written agreements with TPSPs are maintained as follows:	Accounting Services
	Written agreements are maintained with all TPSPs with which account data is shared or that could affect the	
	<ul> <li>Written agreements include acknowledgments from TPSPs that they are responsible for the security of account</li> </ul>	
	data the TPSPs possess or otherwise store, process, or transmit on behalf of the entity, or to the extent that they	
12.8.2	could impact the security of the entity's CDE.	Contracting
	An established process is implemented for engaging TPSPs, including proper due diligence prior to engagement.	Contracting
12.8.4	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	Accounting Services
	entity, and any that are shared between the TPSP and the entity.	Contracting
	Third-party service providers (TPSPs) support their customers' PCI DSS compliance. Additional requirement for service providers only.	Not Applicable
12.9.2	Additional requirement for service providers only.	Not Applicable
12.10.	Suspected and confirmed security incidents that could impact the CDE are responded to immediately.	I.T. Cybersecurity
	An incident response plan exists and is ready to be activated in the event of a suspected or confirmed security	
	<ul> <li>incident. The plan includes, but is not limited to:</li> <li>Roles, responsibilities, and communication and contact strategies in the event of a suspected or confirmed</li> </ul>	
	security incident, including notification of payment brands and acquirers, at a minimum.	
	<ul> <li>Incident response procedures with specific containment and mitigation activities for different types of incidents.</li> <li>Business recovery and continuity procedures.</li> </ul>	
	Data backup processes.	
	Analysis of legal requirements for reporting compromises.	
12.10.1	<ul> <li>Coverage and responses of all critical system components.</li> <li>Reference or inclusion of incident response procedures from the payment brands.</li> </ul>	Information Technology/Departmental
	At least once every 12 months, the security incident response plan is:	
12.10.2	<ul> <li>Reviewed and the content is updated as needed.</li> <li>Tested, including all elements listed in Requirement 12.10.1.</li> </ul>	Information Assurance
	Specific personnel are designated to be available on a 24/7 basis to respond to suspected or confirmed security	
12.10.3	incidents. Personnel responsible for responding to suspected and confirmed security incidents are appropriately and	Information Technology/Departmental
12.10.4	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
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#	Provisions for all PCI DSS V4.0 Requirements	Responsibility
	The security incident response plan includes monitoring and responding to alerts from security monitoring systems,	
	including but not limited to:	
	<ul> <li>Intrusion-detection and intrusion-prevention systems.</li> </ul>	
	Network security controls.	
	<ul> <li>Change-detection mechanisms for critical files.</li> </ul>	
	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.	
12.10.5	<ul> <li>Detection of unauthorized wireless access points.</li> </ul>	I.T. Cybersecurity
	The security incident response plan is modified and evolved according to lessons learned and to incorporate industry	
12.10.6	developments.	Information Assurance
	Incident response procedures are in place, to be	
	initiated upon the detection of stored PAN anywhere	
	it is not expected, and include:	
	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.	Information Assurance
Appendix A:	Additional PCI DSS Requirements	
A	Additional PCI DSS Requirements for Multi-Tenant Service Providers. This Appendix is not used for merchant	
Appendix A1:	assessments.	
Appendix A2:	Additional PCI DSS Requirements for Entities using SSL/Early TLS for Card-Present POS POI Terminal Connections	
	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	
A2.1.1	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)	

https://www.pcisecuritystandards.org/