

The Prioritized Approach to Pursue PCI DSS Compliance

The Payment Card Industry Data Security Standard (PCI DSS) provides a detailed, 12 requirements structure for securing cardholder data that is stored, processed and/ or transmitted by merchants and other organizations. By its comprehensive nature, the standard provides a large amount of information about security - so much that some people who are responsible for cardholder data security may wonder where to start the continuous journey of compliance. Toward this end, the PCI Security Standards Council provides the following Prioritized Approach to help stakeholders understand where they can act to reduce risk earlier in the compliance process. No single milestone in the Prioritized Approach will provide comprehensive security or PCI DSS compliance, but following its guidelines will help stakeholders to expedite the process of securing cardholder data.



HIGHLIGHTS

Can help merchants identify highest risk targets

Creates a common language around PCI DSS implementation and assessment efforts

Milestones enable merchants to demonstrate progress on compliance process

What Is the Prioritized Approach?

The Prioritized Approach provides six security milestones that will help merchants and other organizations incrementally protect against the highest risk factors and escalating threats while on the road to PCI DSS compliance. The Prioritized Approach and its milestones (described on page 2) are intended to provide the following benefits:

- · Roadmap that an organization can use to address its risks in priority order
- Pragmatic approach that allows for "quick wins"
- Supports financial and operational planning
- Promotes objective and measurable progress indicators
- · Helps promote consistency among assessors

Objectives of the Prioritized Approach

The Prioritized Approach provides a roadmap of compliance activities based on risk associated with storing, processing, and/or transmitting cardholder data. The roadmap helps to prioritize efforts to achieve compliance, establish milestones, lower the risk of cardholder data breaches sooner in the compliance process, and helps acquirers objectively measure compliance activities and risk reduction by merchants, service providers, and others. The Prioritized Approach was devised after factoring data from actual breaches, and feedback from Qualified Security Assessors, forensic investigators, and the PCI Security Standards Council Board of Advisors. It is not intended as a substitute, short cut or stop-gap approach to PCI DSS compliance, nor is it a mandatory one-size-fits-all framework applicable to every organization. The Prioritized Approach is suitable for merchants who undergo an on-site assessment or use SAQ D.



PCI DSS COMPLIANCE IS A CONTINUOUS PROCESS



Disclaimer

To achieve PCI DSS compliance, an organization must meet all PCI DSS requirements, regardless of the order in which they are satisfied or whether the organization seeking compliance follows the PCI DSS Prioritized Approach. This document does not modify or abridge the PCI DSS or any of its requirements, and may be changed without notice. PCI SSC is not responsible for errors or damages of any kind resulting from the use of the information contained herein. PCI SSC makes no warranty, guarantee, or representation whatsoever regarding the information provided herein, and assumes no responsibility or liability regarding the use or misuse of such information.

Milestones for Prioritizing PCI DSS Compliance Efforts

The Prioritized Approach includes six milestones. The matrix below summarizes the high-level goals and intentions of each milestone. The rest of this document maps the milestones to each of all twelve PCI DSS requirements and their sub-requirements.

Milestone	Goals
1	Remove sensitive authentication data and limit data retention. This milestone targets a key area of risk for entities that have been compromised. Remember – if sensitive authentication data and other cardholder data are not stored, the effects of a compromise will be greatly reduced. If you don't need it, don't store it
2	Protect systems and networks, and be prepared to respond to a system breach. This milestone targets controls for points of access to most compromises, and the processes for responding.
3	Secure payment card applications. This milestone targets controls for applications, application processes, and application servers. Weaknesses in these areas offer easy prey for compromising systems and obtaining access to cardholder data.
4	Monitor and control access to your systems. Controls for this milestone allow you to detect the who, what, when, and how concerning who is accessing your network and cardholder data environment.
5	Protect stored cardholder data. For those organizations that have analyzed their business processes and determined that they must store Primary Account Numbers, Milestone Five targets key protection mechanisms for that stored data.
6	Finalize remaining compliance efforts, and ensure all controls are in place. The intent of Milestone Six is to complete PCI DSS requirements, and to finalize all remaining related policies, procedures, and processes needed to protect the cardholder data environment.

PCI SSC FOUNDERS











PARTICIPATING ORGANIZATIONS

Merchants, banks, processors, developers and point of sale vendors



		PCI DSS Requirements			Miles	tone		
		r of boo nequirements	1	2	3	4	5	6
R	equire	ement 1: Install and maintain a firewall configuration to prot	ect c	ardh	olde	r dat	а	
1.1	Establi followi	sh and implement firewall and router configuration standards that include the ng:						
	1.1.1	A formal process for approving and testing all network connections and changes to the firewall and router configurations						6
	1.1.2	Current network diagram that identifies all connections between the cardholder data environment and other networks, including any wireless networks	1					
	1.1.3	Current diagram that shows all cardholder data flows across systems and networks.	1					
	1.1.4	Requirements for a firewall at each Internet connection and between any demilitarized zone (DMZ) and the Internal network zone		2				
	1.1.5	Description of groups, roles, and responsibilities for management of network components.						6
	1.1.6	Documentation and business justification for use of all services, protocols, and ports allowed, including documentation for security features implemented for those protocols considered to be insecure. Examples of insecure services, protocols, or ports include but are not limited to FTP, Telnet, POP3, IMAP, and SNMP v1 and v2		2				
	1.1.7	Requirement to review firewall and router rule sets at least every six months.						6
	network Note:	rewall and router configurations that restrict connections between untrusted the sand any system components in the cardholder data environment. An "untrusted network" is any network that is external to the networks belonging to tity under review, and/or which is out of the entity's ability to control or manage.						
	1.2.1	Restrict inbound and outbound traffic to that which is necessary for the cardholder data environment, and specifically deny all other traffic.		2				
	1.2.2	Secure and synchronize router configuration files.		2				
	1.2.3	Install perimeter firewalls between any all wireless networks and the cardholder data environment, and configure these firewalls to deny or, control (if such traffic is necessary for business purposes), permit only authorized any traffic from between the wireless environment into and the cardholder data environment.		2				
1.3		it direct public access between the Internet and any system component in the older data environment.						
	1.3.1	Implement a DMZ to limit inbound traffic to only system components that provide authorized publicly accessible services, protocols, and ports.		2				
	1.3.2	Limit inbound Internet traffic to IP addresses within the DMZ.		2				
	1.3.3	Do not allow any direct connections inbound or outbound for traffic between the Internet and the cardholder data environment.		2				
	1.3.4	Implement anti-spoofing measures to detect and block forged source IP addresses from entering the network.		2				
	1.3.5	Do not allow unauthorized outbound traffic from the cardholder data environment to the Internet.		2				
	1.3.6	Implement stateful inspection, also known as dynamic packet filtering. (That is, only "established" connections are allowed into the network.)		2				



	Place system components that store cardholder data (such as a database) in an internal network zone, segregated from the DMZ and other untrusted networks. Do not disclose private IP addresses and routing information to unauthorized parties. Note: Methods to obscure IP addressing may include, but are not limited to: Network Address Translation (NAT) Placing servers containing cardholder data behind proxy servers/firewalls or content caches, Removal or filtering of route advertisements for private networks that employ			Miles	tone		
	PCI DSS Requirements	1	2	3	4	5	6
1.3.7			2				
1.3.8			2				
	Note: Methods to obscure IP addressing may include, but are not limited to:						
	Network Address Translation (NAT)						
	 Removal or filtering of route advertisements for private networks that employ registered addressing, 						
	 Internal use of RFC1918 address space instead of registered addresses. 						
that o	all personal firewall software on any mobile and/or employee-owned devices connect to the Internet when outside the network (for example, laptops used by loyees), and which are also used to access the network.		2				
	vall configurations include: Specific configuration settings are defined for personal firewall software						
	Personal firewall software is actively running						
	Personal firewall software is not alterable by users of mobile and/or employee-owned						
	devices.						
.5 Ensu	are that security policies and operational procedures for managing firewalls are		2				
docu	umented, in use, and known to all affected parties		_				
Requi	remented, in use, and known to all affected parties rement 2: Do not use vendor-supplied defaults for system pas ity parameters	swo		and o	other	•	
Requirements securion 2.1 Alway accoopasse that p	rement 2: Do not use vendor-supplied defaults for system pas	sswo		and (other	•	
Requires securion 2.1 Alway accompassion that particular terminal control of the	rement 2: Do not use vendor-supplied defaults for system passity parameters asys change vendor-supplied defaults and remove or disable unnecessary default bunts before installing a system on the network. This applies to ALL default swords, including but not limited to those used by operating systems, software provides security services, application and system accounts, point-of-sale (POS)	sswo	rds a	and o	other	•	
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		DOLDES Descriptores and			Miles	stone		
		PCI DSS Requirements	1	2	3	4	5	6
	2.2.2	Enable only necessary services, protocols, daemons, etc., as required for the function of the system.			3			
	2.2.3	Implement additional security features for any required services, protocols, or daemons that are considered to be insecure—for example, use secured technologies such as SSH, S-FTP, SSL, or IPSec VPN to protect insecure services such as NetBIOS, file-sharing, Telnet, FTP, etc.			3			
	2.2.4	Configure system security parameters to prevent misuse.			3			
	2.2.5	Remove all unnecessary functionality, such as scripts, drivers, features, subsystems, file systems, and unnecessary web servers.			3			
2.3	techno	ot all non-console administrative access using strong cryptography. Use blogies such as SSH, VPN, or SSL/TLS for web-based management and other console administrative access management and other non-console administrative s.		2				
2.4	Mainta	in an inventory of system components that are in scope for PCI DSS requirements.		2				
2.5		that security policies and operational procedures for managing vendor defaults her security parameters are documented, in use, and known to all affected parties		2				
2.6	data. T	Hosting providers must protect each entity's hosted environment and cardholder These providers must meet specific requirements as detailed in Appendix A: anal PCI DSS Requirements for Shared Hosting Providers.			3			
R	equire	ement 3: Protect stored cardholder data						
3.1	 Lir reç Pro Sp A o	cardholder data storage to a minimum by implementing data retention and disposal s, procedures and processes that include at least the following for all CHD storage: niting data storage amount and retention time to that which is required for legal, gulatory, and business requirements occases for secure deletion of data when no longer needed ecific retention requirements for cardholder data quarterly automatic or manual process for identifying and securely deleting stored redholder data that exceeds defined retention.	1					
3.2	sensition the autoservice	store sensitive authentication data after authorization (even if encrypted). If we authentication data is received, render all data irretrievable upon completion of chorization process. It is permissible for issuers and companies that support issuing as to store sensitive authentication data if: ere is a business justification and	1					
	Sensiti	e data is stored securely. ve authentication data includes the data as cited in the following Requirements hrough 3.2.3:						



		DOLDOC D			stone						
		PCI DSS Requirements	1	2	3	4	5	6			
	3.2.1	Do not store the full contents of any track (from the magnetic stripe located on the back of a card, equivalent data contained on a chip, or elsewhere). This data is alternatively called full track, track, track 1, track 2, and magnetic-stripe data.	1								
		Note: In the normal course of business, the following data elements from the magnetic stripe may need to be retained:									
		The cardholder's name									
		Primary account number (PAN)									
		Expiration date									
		Service code									
		To minimize risk, store only these data elements as needed for business.									
	3.2.2	Do not store the card verification code or value (three-digit or four-digit number printed on the front or back of a payment card) used to verify card-not-present transactions.to verify card-not-present transactions.	1								
	3.2.3	Do not store the personal identification number (PIN) or the encrypted PIN block.	1								
.3		PAN when displayed (the first six and last four digits are the maximum number of to be displayed), such that only personnel with a legitimate business need can see I PAN.					5				
	cardho	This requirement does not supersede stricter requirements in place for displays of blder data—for example, legal or payment card brand requirements for point-of-sale receipts.									
.4		r PAN unreadable anywhere it is stored (including on portable digital media, p media, and in logs) by using any of the following approaches:					5				
	 Or 	ne-way hashes based on strong cryptography (hash must be of the entire PAN)									
	• Tru	uncation (hashing cannot be used to replace the truncated segment of PAN)									
	• Ind	dex tokens and pads (pads must be securely stored)									
	• St	rong cryptography with associated key management processes and procedures									
	data if hashed additio	It is a relatively trivial effort for a malicious individual to reconstruct original PAN they have access to both the truncated and hashed version of a PAN. Where d and truncated versions of the same PAN are present in an entity's environment, and controls should be in place to ensure that the hashed and truncated versions to be correlated to reconstruct the original PAN.									
	3.4.1	If disk encryption is used (rather than file- or column-level database encryption), logical access must be managed separately and independently of native operating system authentication and access control mechanisms (for example, by not using local user account databases or general network login credentials). Decryption keys must not be associated with user accounts.					5				
.5		nent and implement procedures to protect keys used to secure stored cardholder gainst disclosure and misuse:									
	also ap	This requirement applies to keys used to encrypt stored cardholder data, and oplies to key-encrypting keys used to protect data-encrypting keys—such key-ting keys must be at least as strong as the data-encrypting key.									
	3.5.1	Restrict access to cryptographic keys to the fewest number of custodians necessary.					5				



		PCI DSS Requirements		Milestone 2 3 4				
		r of boo frequirefficits	1	2	3	4	5	
	3.5.2	Store secret and private keys used to encrypt/decrypt cardholder data in one (or more) of the following forms at all times: • Encrypted with a key-encrypting key that is at least as strong as the data-encrypting key, and that is stored separately from the data encrypting key • Within a secure cryptographic device (such as a host security module (HSM) or PTS-approved point-of-interaction device) • As at least two full-length key components or key shares, in accordance with an industry accepted method					5	
		Note: It is not required that public keys be stored in one of these forms						
	3.5.3	Store cryptographic keys in the fewest possible locations.					5	
.6	crypto	locument and implement all key-management processes and procedures for graphic keys used for encryption of cardholder data, including the following: Numerous industry standards for key management are available from various ces including NIST, which can be found at http://csrc.nist.gov						
	3.6.1	Generation of strong cryptographic keys					5	
	3.6.2	Secure cryptographic key distribution.					5	
	3.6.3	Secure cryptographic key storage.					5	
	3.6.4	Cryptographic key changes for keys that have reached the end of their crypto period (for example, after a defined period of time has passed and/or after a certain amount of cipher-text has been produced by a given key), as defined by the associated application vendor or key owner, and based on industry best practices and guidelines (for example, NIST Special Publication 800-57).					5	
	3.6.5	Retirement or replacement (for example, archiving, destruction, and/or revocation) of keys as deemed necessary when the integrity of the key has been weakened (for example, departure of an employee with knowledge of a clear-text key component), or keys are suspected of being compromised. Note: If retired or replaced cryptographic keys need to be retained, these keys must be securely archived (for example, by using a key encryption key). Archived					5	
_		cryptographic keys should only be used for decryption/verification purposes.						L
	3.6.6	If manual clear-text cryptographic key-management operations are used, these operations must be managed using split knowledge and dual control. Note: Examples of manual key management operations include, but are not limited to: key generation, transmission, loading, storage and destruction.					5	
	3.6.7	Prevention of unauthorized substitution of cryptographic keys.					5	
	3.6.8	Requirement for cryptographic key custodians to formally acknowledge that they understand and accept their key-custodian responsibilities.					5	
.7		e that security policies and operational procedures for protecting stored cardholder re documented, in use, and known to all affected parties.					5	



		DOLDOO D			Miles	stone		
		PCI DSS Requirements	1	2	3	4	5	6
R	equire	ement 4: Encrypt transmission of cardholder data across op	en, p	oubli	c net	worl	KS	
4.1	etc.) to network Orr The The Example The Wire Cococce George	rong cryptography and security protocols (for example, SSL/TLS, IPSEC, SSH, a safeguard sensitive cardholder data during transmission over open, public rks, including the following: ally trusted keys and certificates are accepted. be protocol in use only supports secure versions or configurations. be encryption strength is appropriate for the encryption methodology in use. bles of open, public networks include but are not limited to: be Internet reless technologies, including 802.11 and Bluetooth conductions for example, Global System for Mobile communications (GSM), and division multiple access (CDMA) content Packet Radio Service (GPRS). tellite communications		2				
	4.1.1	Ensure wireless networks transmitting cardholder data or connected to the cardholder data environment, use industry best practices (e.g., IEEE 802.11i) to implement strong encryption for authentication and transmission. Note: The use of WEP as a security control is prohibited.		2				
4.2		send unprotected PANs by end-user messaging technologies (for example, e-mail, messaging, chat, etc.).		2				
4.3		that security policies and operational procedures for encrypting transmissions of older data are documented, in use, and known to all affected parties.		2				
R	equire	ement 5: Use and regularly update anti-virus software or pro	grar	ns				
5.1		anti-virus software on all systems commonly affected by malicious software ularly personal computers and servers).		2				
	5.1.1	Ensure that all anti-virus programs are capable of detecting, removing, and protecting against all known types of malicious software.		2				
	5.1.2	For systems considered to be not commonly affected by malicious software, perform periodic evaluations to identify and evaluate evolving malware threats in order to confirm whether such systems continue to not require anti-virus software.		2				
5.2	ArePe	that all anti-virus mechanisms are maintained as follows: e kept current, rform periodic scans enerate audit logs which are retained per PCI DSS Requirement 10.7		2				
5.3	by use limited	that anti-virus mechanisms are actively running and cannot be disabled or altered rs, unless specifically authorized by management on a case-by-case basis for a time period.		2				
	need, a needs securit	Anti-virus solutions may be temporarily disabled only if there is legitimate technical as authorized by management on a case-by-case basis. If anti-virus protection to be disabled for a specific purpose, it must be formally authorized. Additional y measures may also need to be implemented for the period of time during which rus protection is not active.						



	DOLDES Describerante			Miles	stone		
	PCI DSS Requirements	1	2	3	4	5	6
5.4	Ensure that security policies and operational procedures for protecting systems against malware are documented, in use, and known to all affected parties.		2				
R	equirement 6: Develop and maintain secure systems and applicat	ions					
6.1	Establish a process to identify security vulnerabilities, using reputable outside sources for security vulnerability information, and assign a risk ranking (for example, as "high," "medium," or "low") to newly discovered security vulnerabilities. Note: Risk rankings should be based on industry best practices as well as consideration of potential impact. For example, criteria for ranking vulnerabilities may include consideration of the CVSS base score, and/or the classification by the vendor, and/or type of systems affected. Methods for evaluating vulnerabilities and assigning risk ratings will vary based on an organization's environment and risk assessment strategy. Risk rankings should, at a minimum, identify all vulnerabilities considered to be a "high risk" to the environment. In addition to the risk ranking, vulnerabilities may be considered "critical" if they pose an imminent threat to the environment, impact critical systems, and/or would result in a potential compromise if not addressed. Examples of critical systems may include security systems, public-facing devices and systems, databases, and other systems that store, process, or transmit cardholder data.			3			
6.2	Ensure that all system components and software are protected from known vulnerabilities by installing applicable vendor supplied security patches. Install critical security patches within one month of release. Note: Critical security patches should be identified according to the risk ranking process defined in Requirement 6.1.			3			
6.3	Develop internal and external software applications (including web-based administrative access to applications) securely, as follows: In accordance with PCI DSS (for example, secure authentication and logging) Based on industry standards and/or best practices. Incorporating information security throughout the software-development life cycle Note: this applies to all software developed internally as well as bespoke or custom software developed by a third party.			3			
	6.3.1 Remove development, test and/or custom application accounts, user IDs, and passwords before applications become active or are released to customers.			3			



		identify any potential coding vulnerability (using either manual or automated processes) to include at least the following: Code changes are reviewed by individuals other than the originating cauthor, and by individuals knowledgeable about code-review techniquisecure coding practices. Code reviews ensure code is developed according to secure coding guidelines Appropriate corrections are implemented prior to release. Code-review results are reviewed and approved by management prior release Note: This requirement for code reviews applies to all custom code (both internal and public-facing), as part of the system development life cycle. Coreviews can be conducted by knowledgeable internal personnel or third par Public-facing web applications are also subject to additional controls, to adding ongoing threats and vulnerabilities after implementation, as defined at PCLI Requirement 6.6. Collow change control processes and procedures for all changes to system componine processes must include the following: Separate development/test environments from production environments, and enforce the separation with access controls. Separation of duties between development/test and production environments, and enforce the separation with access controls. Removal of test data and accounts before production systems become act Change control procedures for the implementation of security patches and software modifications must include the following: Change control procedures for the implementation of security patches and software modifications must include the following:			Miles	stone		
		PCI DSS Requirements	1	2	3	4	5	6
	6.3.2	 Code changes are reviewed by individuals other than the originating code author, and by individuals knowledgeable about code-review techniques and secure coding practices. Code reviews ensure code is developed according to secure coding guidelines Appropriate corrections are implemented prior to release. Code-review results are reviewed and approved by management prior to release Note: This requirement for code reviews applies to all custom code (both internal and public-facing), as part of the system development life cycle. Code reviews can be conducted by knowledgeable internal personnel or third parties. Public-facing web applications are also subject to additional controls, to address ongoing threats and vulnerabilities after implementation, as defined at PCI DSS 			3			
6.4		change control processes and procedures for all changes to system components.			3			
	6.4.1	Separate development/test environments from production environments, and enforce the separation with access controls.			3			
	6.4.2	Separation of duties between development/test and production environment.			3			
	6.4.3	Production data (live PANs) are not used for testing or development.			3			
	6.4.4	Removal of test data and accounts before production systems become active.			3			
	6.4.5							6
		6.4.5.1 Documentation of impact.						6
		6.4.5.2 Documented change approval by authorized parties.						6
		6.4.5.3 Functionality testing to verify that the change does not adversely impact the security of the system.						6
		6.4.5.4 Back-out procedures.						6
6.5	 Traco De Note: practic practic SANS for the 	in developers in secure coding techniques, including how to avoid common ding vulnerabilities, and understanding how sensitive data is handled in memory. Evelop applications based on secure coding guidelines. The vulnerabilities listed at 6.5.1 through 6.5.10 were current with industry best less when this version of PCI DSS was published. However, as industry best less for vulnerability management are updated (for example, the OWASP Guide, CWE Top 25, CERT Secure Coding, etc.), the current best practices must be used se requirements			3			
	6.5.1	Injection flaws, particularly SQL injection. Also consider OS Command Injection, LDAP and XpPath injection flaws as well as other injection flaws.			3			
	6.5.2	Buffer overflows.			3			



		DCI DCC De maineurs auto			Milestone						
		PCI DSS Requirements	1	2	3	4	5	6			
6.	5.3	Insecure cryptographic storage.			3						
6.	5.4	Insecure communications.			3						
6.	5.5	Improper error handling.			3						
6.	5.6	All "high risk" vulnerabilities identified in the vulnerability identification process (as defined in PCI DSS Requirement 6.1).			3						
		ements 6.5.7 through 6.5.9, below, apply to web applications and application es (internal or external):									
6.	5.7	Cross-site scripting (XSS).			3						
6.	5.8	Improper Access Control (such as insecure direct object references, failure to restrict URL access, and directory traversal and failure to restrict user access to functions).			3						
6.	5.9	Cross-site request forgery (CRSF).			3						
6.	5.10	Broken authentication and session management. Note: Requirement 6.5.10 is a best practice until June 30, 2015, after which it becomes a requirement			3						
or ei • • •	ngoingither of Revolution Character Tequires Instantal	olic-facing web applications, address new threats and vulnerabilities on an group basis and ensure these applications are protected against known attacks by if the following methods: viewing public-facing web applications via manual or automated application merability security assessment tools or methods, at least annually and after any larges This assessment is not the same as the vulnerability scans performed for ement 11.2. Italling an automated technical solution that detects and prevents web-based lacks (for example, a web-application firewall) in front of public-facing web olications, to continually check all traffic			3						
se	nsure	that security policies and operational procedures for developing and maintaining systems and applications are documented, in use, and known to all affected			3						
		ment 7: Restrict access to cardholder data by business nee	d to	kno	W						
		uires such access.									
7.	1.1	Define access needs for each role, including: System components and data resources that each role needs to access for their job function The system components are sources that each role needs to access for their job function.				4					
		 Level of privilege required (for example, user, administrator, etc.) for accessing resources 									
7.	1.2	Restrict access to privileged user IDs to least privileges necessary to perform job responsibilities.				4					
7.	1.3	Assign access based on individual personnel's job classification and function				4					
7.	1.4	Require documented approval by authorized parties specifying required privileges.				4					



		DOLDES Descriptores and			2 3	stone		
		PCI DSS Requirements	1	2	3	4	5	6
7.2	that re	ish an access control system for systems components with multiple users stricts access based on a user's need to know, and is set to "deny all" unless cally allowed. This access control system must include the following:						
	7.2.1	Coverage of all system components.				4		
	7.2.2	Assignment of privileges to individuals based on job classification and function.				4		
	7.2.3	Default "deny-all" setting.				4		
7.3		that security policies and operational procedures for restricting access to older data are documented, in use, and known to all affected parties.				4		
R	equire	ement 8: Assign a unique ID to each person with computer a	icce	SS				
8.1		and implement policies and procedures to ensure proper user identification gement for nonconsumer users and administrators on all system components as a:						
	8.1.1	Assign all users a unique ID before allowing them to access system components or cardholder data.				4		
	8.1.2	Control addition, deletion, and modification of user IDs, credentials, and other identifier objects.				4		
	8.1.3	Immediately revoke access for any terminated users.				4		
	8.1.4	Remove/disable inactive user accounts at least every 90 days.				4		
	8.1.5	Manage IDs used by vendors to access, support, or maintain system components via remote access as follows: • Enabled only during the time period needed and disabled when not in use. • Monitored when in use.				4		
	8.1.6	Limit repeated access attempts by locking out the user ID after not more than six attempts.				4		
	8.1.7	Set the lockout duration to a minimum of 30 minutes or until an administrator enables the user ID.				4		
	8.1.8	If a session has been idle for more than 15 minutes, require the user to reauthenticate to re-activate the terminal or session.				4		
8.2	autherScSc	ition to assigning a unique ID, employ at least one of the following methods to atticate all users: Inmething you know, such as a password or passphrase Inmething you have, such as a token device or smart card Inmething you are, such as a biometric				4		
	8.2.1	Using strong cryptography, render all authentication credentials (such as passwords/phrases) unreadable during transmission and storage on all system component.				4		
	8.2.2	Verify user identity before modifying any authentication credential—for example, performing password resets, provisioning new tokens, or generating new keys.				4		



		DOLDES Paguiramento			Mile	stone		
		PCI DSS Requirements	1	2	3	4	5	6
	8.2.3	Passwords/phrases must meet the following: Require a minimum length of at least seven characters. Contain both numeric and alphabetic characters. Alternatively, the passwords/phrases must have complexity and strength at least equivalent to the parameters specified above.				4		
	8.2.4	Change user passwords/passphrases at least every 90 days.				4		
	8.2.5	Do not allow an individual to submit a new password/phrase that is the same as any of the last four passwords/phrases he or she has used.				4		
	8.2.6	Set passwords/phrases for first time use and upon reset to a unique value for each user, and change immediately after the first use.				4		
8.3	the ner (includ Note: (see Re authern not con remote access	orate two-factor authentication for remote network access originating from outside twork by personnel (including users and administrators) and all third parties, ing vendor access for support or maintenance). Two-factor authentication requires that two of the three authentication methods equirement 8.2 for descriptions of authentication methods) be used for tication. Using one factor twice (for example, using two separate passwords) is insidered two-factor authentication. Examples of two-factor technologies include authentication and dial-in service (RADIUS) with tokens; terminal access controller is control system (TACACS) with tokens; and other technologies that facilitate two-authentication.		2				
8.4	GuGuIns	nent and communicate authentication procedures and policies to all users ng: lidance on selecting strong authentication credentials lidance for how users should protect their authentication credentials structions not to reuse previously used passwords structions to change passwords if there is any suspicion the password could be mpromised				4		
8.5	• Ge	use group, shared, or generic IDs, passwords, or other authentication methods as s: eneric user IDs are disabled or removed. ared user IDs do not exist for system administration and other critical functions. ared and generic user IDs are not used to administer any system components				4		
	8.5.1	Additional requirement for service providers: Service providers with remote access to customer premises (for example, for support of POS systems or servers) must use a unique authentication credential (such as a password/phrase) for each customer. Note: This requirement is not intended to apply to shared hosting providers accessing their own hosting environment, where multiple customer environments are hosted. Note: Requirement 8.5.1 is a best practice until June 30, 2015, after which it becomes a requirement		2				



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		PCI DSS Requirements	1	2	3	4	5	6
3.6	securi	other authentication mechanisms are used (for example, physical or logical by tokens, smart cards, certificates, etc.), use of these mechanisms must be ed as follows:				4		
		thentication mechanisms must be assigned to an individual account and not ared among multiple accounts.						
		ysical and/or logical controls must be in place to ensure only the intended account n use that mechanism to gain access						
8.7	admin	ess to any database containing cardholder data (including access by applications, strators, and all other users) is restricted as follows:				4		
		user access to, user queries of, and user actions on databases are through ogrammatic methods.						
	 Ap 	ally database administrators have the ability to directly access or query databases. Polication IDs for database applications can only be used by the applications (and to by individual users or other non-application processes)						
8.8		that security policies and operational procedures for identification and attication are documented, in use, and known to all affected parties.	·			4		
R	equire	ement 9: Restrict physical access to cardholder data						
9.1	-	opropriate facility entry controls to limit and monitor physical access to systems in rdholder data environment.		2				
	9.1.1	Use video cameras and/or access control mechanisms to monitor individual physical access to sensitive areas. Review collected data and correlate with other entries. Store for at least three months, unless otherwise restricted by law.		2				
		Note: "Sensitive areas" refers to any data center, server room or any area that houses systems that store, process, or transmit cardholder data. This excludes public-facing areas where only point-of sale terminals are present, such as the cashier areas in a retail store.						
	9.1.2	Implement physical and/or logical controls to restrict access to publicly accessible network jacks. For example, network jacks located in public areas and areas accessible to visitors could be disabled and only enabled when network access is explicitly authorized. Alternatively, processes could be implemented to ensure that visitors are escorted at all times in n areas with active network jacks. For example, areas accessible to visitors should not have network ports enabled unless network access is specifically authorized.		2				
	9.1.3	Restrict physical access to wireless access points, gateways, handheld devices, networking/communications hardware, and telecommunications lines.		2				
9.2	Develo	p procedures to easily distinguish between onsite personnel and visitors to e:					5	
	• Ide	entifying new onsite personnel or visitors (for example, assigning badges)						
	• Ch	anges to access requirements						
		voking or terminating onsite personnel and expired visitor identification (such as ID dges)						
9.3	Contro	ol physical access for onsite personnel to the sensitive areas as follows:		2				
	 Ac 	cess must be authorized and based on individual job function.						
		cess is revoked immediately upon termination, and all physical access						
	me	echanisms, such as keys, access cards, etc., are returned or disabled						



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		PCI DSS Requirements	1	2	3	4	5	6
9.4	Implem followin	ent procedures to identify and authorize visitors. Procedures should include the						
	9.4.1	Visitors are authorized before entering, and escorted at all times within, areas where cardholder data is processed or maintained.					5	
	9.4.2	Visitors are identified and given a badge or other identification that expires and that visibly distinguishes the visitors from onsite personnel.					5	
	9.4.3	Visitors are asked to surrender the badge or identification before leaving the facility or at the date of expiration.					5	
	9.4.4	A visitor log is used to maintain a physical audit trail of visitor activity to the facility as well as computer rooms and data centers where cardholder data is stored or transmitted. Document the visitor's name, the firm represented, and the onsite personnel authorizing physical access on the log. Retain this log for a minimum of three months, unless otherwise restricted by law.					5	
9.5	Physica	ally secure all media.					5	
	9.5.1	Store media backups in a secure location, preferably an off-site facility, such as an alternate or backup site, or a commercial storage facility. Review the location's security at least annually.					5	
9.6		n strict control over the internal or external distribution of any kind of media, ag the following:						
	9.6.1	Classify media so the sensitivity of the data can be determined.					5	
	9.6.2	Send the media by secured courier or other delivery method that can be accurately tracked.					5	
	9.6.3	Ensure management approves any and all media that is moved from a secured area (especially when media is distributed to individuals).					5	
9.7	Maintai	n strict control over the storage and accessibility of media						
	9.7.1	Properly maintain inventory logs of all media and conduct media inventories at least annually					5	
9.8	Destroy	media when it is no longer needed for business or legal reasons as follows:						
	9.8.1	Shred, incinerate, or pulp hardcopy materials so that cardholder data cannot be reconstructed.	1					
	9.8.2	Render cardholder data on electronic media unrecoverable so that cardholder data cannot be reconstructed.	1					
9.9		devices that capture payment card data via direct physical interaction with the om tampering and substitution.						
	transac	These requirements apply to card reading devices used in card-present tions (that is, card swipe or dip) at the point of sale. This requirement is not add to apply to manual key-entry components such as computer keyboards and bypads.						
	Note: F	Requirement 9.9 is a best practice until June 30, 2015, after which it becomes a ment						



	DCI DSS Paguiramenta			Miles	stone		
	PCI DSS Requirements	1	2	3	4	5	6
9.9.1	Maintain an up-to-date list of devices. The list should include the following:		2				
	Make, model of device						
	 Location of device (for example, the address of the site or facility where the device is located) 						
	Device serial number or other method of unique identification						
9.9.2	Periodically inspect device surfaces to detect tampering (for example, addition of card skimmers to devices), or substitution (for example, by checking the serial number or other device characteristics to verify it has not been swapped with a fraudulent device).		2				
	Note: Examples of signs that a device might have been tampered with or substituted include unexpected attachments or cables plugged into the device, missing or changed security labels, broken or differently colored casing, or changes to the serial number or other external markings.						
9.9.3	Provide training for personnel to be aware of attempted tampering or replacement of devices. Training should include the following:		2				
	 Verify the identity of any third-party persons claiming to be repair or maintenance personnel, prior to granting them access to modify or troubleshoot devices. 						
	 Do not install, replace, or return devices without verification. 						
	 Be aware of suspicious behavior around devices (for example, attempts by unknown persons to unplug or open devices). 						
	 Report suspicious behavior and indications of device tampering or substitution to appropriate personnel (for example, to a manager or security officer) 						
	that security policies and operational procedures for restricting physical access to older data are documented, in use, and known to all affected parties.					5	
Require	ement 10: Track and monitor all access to network resource	s an	d ca	rdhol	lder (data	
0.1 Implen	nent audit trails to link all access to system components to each individual user.				4		
0.2 Implen	nent automated audit trails for all system components to reconstruct the following .						
10.2.1	All individual user accesses to cardholder data.				4		
10.2.2	All actions taken by any individual with root or administrative privileges.				4		
10.2.3	Access to all audit trails.				4		
10.2.4	Invalid logical access attempts.				4		
10.2.5	Use of and changes to identification and authentication mechanisms—including but not limited to creation of new accounts and elevation of privileges—and all changes, additions, or deletions to accounts with root or administrative privileges.				4		
	Initialization, stopping, or pausing of the audit logs				4		
10.2.6					4		
	Creation and deletion of system level objects						
10.2.7	Creation and deletion of system level objects d at least the following audit trail entries for all system components for each event:				_		



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	PCI DSS Requirements	1	2	3	4	5	6			
10.3.2	Type of event.				4					
10.3.3	Date and time.				4					
10.3.4	Success or failure indication.				4					
10.3.5	Origination of event.				4					
10.3.6	Identity or name of affected data, system component, or resource.				4					
_	ime synchronization technology, synchronize all critical system clocks and times sure that the following is implemented for acquiring, distributing, and storing time.				4					
10.4.1	Critical systems have the correct and consistent time.				4					
10.4.2	Time data is protected.				4					
10.4.3	Time settings are received from industry-accepted time sources.				4					
0.5 Secure	audit trails so they cannot be altered.									
10.5.1	Limit viewing of audit trails to those with a job-related need.				4					
10.5.2	Protect audit trail files from unauthorized modifications.				4					
10.5.3	Promptly back up audit trail files to a centralized log server or media that is difficult to alter.				4					
10.5.4	Write logs for external-facing technologies onto a log server on the internal log server or media device.				4					
10.5.5	Use file integrity monitoring or change-detection software on logs to ensure that existing log data cannot be changed without generating alerts (although new data being added should not cause an alert).				4					
	logs and security events for all system components to identify anomalies or ous activity.									
Note: l	og harvesting, parsing, and alerting tools may be used to meet this Requirement.						,			
10.6.1	Review the following at least daily:				4					
	All security events									
	 Logs of all system components that store, process, or transmit CHD and/or SAD, or that could impact the security of CHD and/or SAD 									
	Logs of all critical system components									
	 Logs of all servers and system components that perform security functions (for example, firewalls, intrusion-detection systems/intrusion-prevention systems (IDS/IPS), authentication servers, e-commerce redirection servers, etc.) 									
10.6.2	Review logs of all other system components periodically based on the organization's policies and risk management strategy, as determined by the organization's annual risk assessment.				4					
10.6.3	Follow up exceptions and anomalies identified during the review process.				4					
	audit trail history for at least one year, with a minimum of three months ately available for analysis (for example, online, archived, or restorable from o).				4					



	DCI DCC Demiliamento			Miles	stone		
	PCI DSS Requirements	1	2	3	4	5	6
Require	ment 11: Regularly test security systems and processes						
detect					4		
networ networ	k scans, physical/logical inspections of system components and infrastructure, k access control (NAC), or wireless IDS/IPS. Whichever methods are used, they						
11.1.1					4		
11.1.2			2				
signific in netw Note: I that all Additio	ant change in the network (such as new system component installations, changes fork topology, firewall rule modifications, product upgrades). Multiple scan reports can be combined for the quarterly scan process to show systems were scanned and all applicable vulnerabilities have been addressed. In all documentation may be required to verify non-remediated vulnerabilities are in		2				
comple the ent vulnera subseq	eted if the assessor verifies 1) the most recent scan result was a passing scan, 2)						
11.2.1	Perform quarterly internal vulnerability scans and rescans as needed, until all "high-risk" vulnerabilities (as identified in Requirement 6.1) are resolved. Scans must be performed by qualified personnel.		2				
11.2.2	Perform quarterly external vulnerability scans, via an Approved Scanning Vendor (ASV) approved by the Payment Card Industry Security Standards Council (PCI SSC). Perform rescans as needed, until passing scans are achieved.		2				
	Note: Quarterly external vulnerability scans must be performed by an Approved Scanning Vendor (ASV), approved by the Payment Card Industry Security Standards Council (PCI SSC). Refer to the ASV Program Guide published on the PCI SSC website for scan customer responsibilities, scan preparation, etc.						
11.2.3	Perform internal and external scans, and rescans as needed, after any significant change. Scans must be performed by qualified personnel.		2				



	DOLDES Descriptors and			Miles	stone	
	PCI DSS Requirements	1	2	3	4	6
-	nent a methodology for penetration testing that includes the following: cased on industry-accepted penetration testing approaches (for example, NIST		2			
	800-115) ludes coverage for the entire CDE perimeter and critical systems					
	ludes testing from both inside and outside the network					
• Inc	ludes testing to validate any segmentation and scope-reduction controls					
	fines application-layer penetration tests to include, at a minimum, the nerabilities listed in Requirement 6.5					
	fines network-layer penetration tests to include components that support network actions as well as operating systems					
	ludes review and consideration of threats and vulnerabilities experienced in the t 12 months					
• Sp	ecifies retention of penetration testing results and remediation activities results.					
it beco	This update to Requirement 11.3 is a best practice until June 30, 2015, after which mes a requirement. PCI DSS v2.0 requirements for penetration testing must be ad until v3.0 is in place.					
11.3.1	Perform external penetration testing at least annually and after any significant infrastructure or application upgrade or modification (such as an operating system upgrade, a sub-network added to the environment, or a web server added to the environment).		2			
11.3.2	Perform internal penetration testing at least annually and after any significant infrastructure or application upgrade or modification (such as an operating system upgrade, a sub-network added to the environment, or a web server added to the environment)		2			
11.3.3	Exploitable vulnerabilities found during penetration testing are corrected and testing is repeated to verify the corrections.		2			
11.3.4	If segmentation is used to isolate the CDE from other networks, perform penetration tests at least annually and after any changes to segmentation controls/methods to verify that the segmentation methods are operational and effective, and isolate all out-of-scope systems from in-scope systems.		2			
intrusio enviror person	crusion-detection and/or intrusion-prevention techniques to detect and/or prevent ons into the network. Monitor all traffic at the perimeter of the cardholder data ment as well as at critical points in the cardholder data environment, and alert nel to suspected compromises. Keep all intrusion-detection and prevention s, baselines, and signatures up to date.		2			
alert pe or cont weekly	r a change-detection mechanism (for example, file-integrity monitoring tools) to ersonnel to unauthorized modification of critical system files, configuration files, tent files; and configure the software to perform critical file comparisons at least. For change-detection purposes, critical files are usually those that do not regularly				4	
compro usually critical	e, but the modification of which could indicate a system compromise or risk of omise. Change-detection mechanisms such as file-integrity monitoring products come preconfigured with critical files for the related operating system. Other files, such as those for custom applications, must be evaluated and defined by the that is, the merchant or service provider)					



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	PCI DSS Requirements	1	2	3	4	5	6
11.5.1	Implement a process to respond to any alerts generated by the change detection solution.				4		
	that security policies and operational procedures for security monitoring and are documented, in use, and known to all affected parties.				4		
Require	ement 12: Maintain a policy that addresses information secu	ırity	for a	II pei	rsonr	nel	
2.1 Establi followi	ish, publish, maintain, and disseminate a security policy that accomplishes the ng:						6
12.1.1	Review the security policy at least annually and update the policy when the environment changes.						6
Is exIdeReExamp	nent a risk-assessment process that: performed at least annually and upon significant changes to the environment (for ample, acquisition, merger, relocation, etc.), entifies critical assets, threats, and vulnerabilities, and esults in a formal risk assessment. eles of risk-assessment methodologies include but are not limited to OCTAVE, ISO and NIST SP 800-30.	1					
Note: and wi	p usage policies for critical technologies and define proper use of these plogies. Examples of critical technologies include, but are not limited to, remote access reless technologies, laptops, tablets, removable electronic media, email usage and et usage. e these usage policies require the following:						6
	Explicit approval by authorized parties						6
	Authentication for use of the technology.						6
	A list of all such devices and personnel with access.						6
	A method to accurately and readily determine owner, contact information, and purpose (for example, labeling, coding, and/or inventorying of devices.						6
12.3.5	Acceptable uses of the technology.						6
12.3.6	Acceptable network locations for the technologies.						6
12.3.7	List of company-approved products.						6
	Automatic disconnect of sessions for remote-access technologies after a specific period of inactivity.						6
							6
12.3.8	Activation of remote-access technologies for vendors and business partners only when needed by vendors and business partners, with immediate deactivation after use.						



	PCI DSS Paguiromento			Miles	stone		
	PCI DSS Requirements	1	2	3	4	5	6
	that the security policy and procedures clearly define information security sibilities for all personnel.						6
_	to an individual or team the following information security management sibilities:						6
12.5.1	Establish, document, and distribute security policies and procedures.						6
12.5.2	Monitor and analyze security alerts and information, and distribute to appropriate personnel.						6
12.5.3	Establish, document, and distribute security incident response and escalation procedures to ensure timely and effective handling of all situations.		2				
12.5.4	Administer user accounts, including additions, deletions, and modifications.						6
12.5.5	Monitor and control all access to data.						6
	nent a formal security awareness program to make all personnel aware of the ance of cardholder data security.						6
12.6.1	Educate personnel upon hire at least annually. Note: Methods can vary depending on the role of the personnel and their level of access to the cardholder data.						6
12.6.2	Require personnel to acknowledge at least annually that they have read and understood the security policy and procedures.						6
source record, Note: I cashiel	potential personnel prior to hire to minimize the risk of attacks from internal s. (Examples of background checks include previous employment history, criminal credit history and reference checks.) For those potential personnel to be hired for certain positions such as store is who only have access to one card number at a time when facilitating a strion, this requirement is a recommendation only.						6
	in and implement policies and procedures to manage service providers with whom lder data is shared, or that could affect the security of cardholder data, as follows:		2				
12.8.1	Maintain a list of service providers.		2				
12.8.2	Maintain a written agreement that includes an acknowledgement that the service providers are responsible for the security of cardholder data the service providers possess or otherwise store, process or transmit on behalf of the customer, or to the extent that they could impact the security of the customer's cardholder data environment.		2				
	Note: The exact wording of an acknowledgement will depend on the agreement between the two parties, the details of the service being provided, and the responsibilities assigned to each party. The acknowledgement does not have to include the exact wording provided in this requirement.						
12.8.3	Ensure there is an established process for engaging service providers including proper due diligence prior to engagement.		2				
12.8.4	Maintain a program to monitor service providers' PCI DSS compliance status at least annually.		2				
12.8.5	Maintain information about which PCI DSS requirements are managed by each service provider, and which are managed by the entity.		2				



	DOLDOO D			Miles	stone		
	PCI DSS Requirements	1	2	3	4	5	6
12.9	Additional requirement for service providers: Service providers acknowledge in writing to customers that they are responsible for the security of cardholder data the service provider possesses or otherwise stores, processes, or transmits on behalf of the customer, or to the extent that they could impact the security of the customer's cardholder data environment. Note: This requirement is a best practice until June 30, 2015, after which it becomes a requirement. Note: The exact wording of an acknowledgement will depend on the agreement between the two parties, the details of the service being provided, and the responsibilities assigned to each party. The acknowledgement does not have to include the exact wording provided in this requirement.		2				
12.	0 Implement an incident response plan. Be prepared to respond immediately to a system breach.						
	12.10.1 Create the incident response plan to be implemented in the event of system breach. Ensure the plan addresses the following, at a minimum:		2				
	 Roles, responsibilities and communication and contact strategies in the event of a compromise including notification of the payment brands, at a minimum 						
	 Specific incident response procedures 						
	 Business recovery and continuity procedures 						
	Data back-up processes						
	 Analysis of legal requirements for reporting compromises 						
	 Coverage and responses of all critical system components 						
	 Reference or inclusion of incident response procedures from the payment brands 						
	12.10.2 Test the plan at least annually.		2				
	12.10.3 Designate specific personnel to be available on a 24/7 basis to respond to alerts.		2			ımen	
	12.10.4 Provide appropriate training to staff with security breach response responsibilities.		2				
	12.10.5 Include alerts from intrusion detection, intrusion prevention, and file integrity monitoring systems.		2				
	12.10.6 Develop a process to modify and evolve the incident response plan according to lessons learned and to incorporate industry developments.		2				
R	equirement A.1: Shared hosting providers must protect the cardho	olde	r dat	a en	viron	men	t
4.1	Protect each entity's (that is merchant, service provider, or other entity) hosted environment and data, per A.1.1 through A.1.4:			3			
	A hosting provider must fulfill these requirements as well as all other relevant sections of the PCI DSS.						
	Note: Even though a hosting provider may meet these requirements, the compliance of the entity that uses the hosting provider is not guaranteed. Each entity must comply with the PCI DSS and validate compliance as applicable.						
A1.	Ensure that each entity only runs processes that have access to that entity's cardholder data environment.			3			
4.1	2 Restrict each entity's access and privileges to its own cardholder data environment only.			3			



DOLDOO D			Miles	stone			
PCI DSS Requirements	1	2	3	4	5	6	
A.1.3 Ensure logging and audit trails are enabled and unique to each entity's cardholder data environment and consistent with PCI DSS Requirement 10.			3				
A.1.4 Enable processes to provide for timely forensic investigation in the event of a compromise to any hosted merchant or service provider.			3				