				Domesta of Domestikilisie
				Demarcation of Responsibilities
PCI DSS Requirements (Responsibility) v 3.2.1 as it applies to Control Plane	Service Provider	Customer	Shared	
	Flovider			
Requirement 1: Install and maintain a firewall configuration to protect cardholder data				
Requirement 1. mistatt and maintain a mewatt configuration to protect cardiotaer data				
1.1 Establish and implement firewall and router configuration standards that include the				
following:	Y			
1.1.1 A formal process for approving and testing all network connections and changes to the		-	-	
firewall and router configurations	Y			
1.1.2 Current network diagram that identifies all connections between the cardholder data		\vdash	\vdash	
environment and other networks, including any wireless networks	Y			
1.1.3 Current diagram that shows all cardholder data flows across systems and networks				
	Y			
1.1.4 Requirements for a firewall at each Internet connection and between any demilitarized				
zone (DMZ) and the internal network zone	Y			
1.1.5 Description of groups, roles, and responsibilities for management of network components				
	Y			
1.1.6 Documentation of business justification and approval for use of all services, protocols, and	24			
ports allowed, including documentation of security features implemented for those protocols	Y			
1.1.7 Requirement to review firewall and router rule sets at least every six months	V			
1.2 Build firewall and router configurations that restrict connections between untrusted networks	v			
and any system components in the cardholder data environment.				
1.2.1 Restrict inbound and outbound traffic to that which is necessary for the cardholder data environment, and specifically deny all other traffic.	Y			
1.2.2 Secure and synchronize router configuration files.	Y			
		\perp	\vdash	
1.2.3 Install perimeter firewalls between all wireless networks and the cardholder data environment, and configure these firewalls to deny or, if traffic is necessary for business	N/A			
nurnoses permit only authorized traffic between the wireless environment and the cardholder		-	\vdash	
1.3 Prohibit direct public access between the Internet and any system component in the cardholder data environment.	Υ			
1.3.1 Implement a DMZ to limit inbound traffic to only system components that provide		-	\vdash	
authorized publicly accessible services, protocols, and ports.	Υ			
1.3.2 Limit inbound Internet traffic to IP addresses within the DMZ.		\vdash	\vdash	
2.3.2 Elime insourid internet dame to it addresses within the Biviz.	Υ			
1.3.3 Implement anti-spoofing measures to detect and block forged source IP addresses from		-	\vdash	
entering the network.	Y			
(For example, block traffic originating from the Internet with an internal source address.) 1.3.4 Do not allow unauthorized outbound traffic from the cardholder data environment to the		-	\vdash	
Internet.	Y			
1.3.5 Permit only "established" connections into the network.				
	Y			
1.3.6 Place system components that store cardholder data (such as a database) in an internal				
network zone, segregated from the DMZ and other untrusted networks.	N/A			
1.3.7 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:	Y			
1.4 Install personal firewall software or equivalent functionality on any portable computing	V			
devices (including company and/or employee-owned) that connect to the Internet when outside the network (for example, laptops used by employees), and which are also used to access the	Y			
1.5 Ensure that security policies and operational procedures for managing firewalls are	Y			
documented, in use, and known to all affected parties.				
Requirement 2: Do not use vendor-supplied defaults for system passwords and other security parameters				
2.1 Always change vendor-supplied defaults and remove or disable unnecessary default accounts before installing a system on the network.				
and the state of t				
This applies to ALL default passwords, including but not limited to those used by operating	Y			
systems, software that provides security services, application and system accounts, point-of-sale (POS) terminals, payment applications, Simple Network Management Protocol (SNMP)				
2.1.1 For wireless environments connected to the cardholder data environment or transmitting				
cardholder data, change ALL wireless vendor defaults at installation, including but not limited to	N/A			
default wireless encryption keys passwords and SNMP community strings 2.2 Develop configuration standards for all system components. Assure that these standards				
address all known security vulnerabilities and are consistent with industry-accepted system	Y			
hardening standards 2.2.1 Implement only one primary function per server to prevent functions that require different				
security levels from co-existing on the same server. (For example, web servers, database	Y			
servers and DNS should be implemented on separate servers)				

2.2.2 Enable only necessary services, protocols, daemons, etc., as required for the function of the system.	Υ					
System.						
2.2.3 Implement additional security features for any required services, protocols, or daemons						
that are considered to be insecure.	N/A					
2.2.4 Configure system security parameters to prevent misuse.						
	Υ					
2.2.5 Remove all unnecessary functionality, such as scripts, drivers, features, subsystems, file	V					
systems, and unnecessary web servers.	,					
2.3 Encrypt all non-console administrative access using strong cryptography.						
	Υ					
Note: Where SSI /early TLS is used, the requirements in Appendix A2 must be completed			┨┣━━			
2.4 Maintain an inventory of system components that are in scope for PCI DSS.	v					
	· ·					
2.5 Ensure that security policies and operational procedures for managing vendor defaults and						
other security parameters are documented, in use, and known to all affected parties.	Υ					
2.C.Charred backing many ideas was to make at a sale antity's backed any improved and conditioned at			-			
2.6 Shared hosting providers must protect each entity's hosted environment and cardholder data. These providers must most ensifie requirements as detailed in Appendix A1. Additional DCI.	v					
These providers must meet specific requirements as detailed in Appendix A1: Additional PCI DSS Requirements for Shared Hosting Providers						
Requirement 3: Protect stored cardholder data						
3.1 Keep cardbolder data eterage to a minimum by implementing data retention and discuss 1						
3.1 Keep cardholder data storage to a minimum by implementing data retention and disposal policies, procedures and processes that include at least the following for all cardholder data	N/A					
(CHD) storage:						
3.2 Do not store sensitive authentication data after authorization (even if encrypted). If sensitive						
authentication data is received, render all data unrecoverable upon completion of the	N/A					
authorization process 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) after authorization. This data is	N/A					
alternatively called full track track track 1 track 2 and magnetic-stripe data						
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) after	N/A					
authorization 3.2.3 Do not store the personal identification number (PIN) or the encrypted PIN block after	\vdash		\blacksquare			
authorization.	N/A					
dddionzadon.						
3.3 Mask PAN when displayed (the first six 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	N/A					
than the first six/last four digits of the PAN 3.4 Render PAN unreadable anywhere it is stored (including on portable digital media, backup	\vdash					
media, and in logs) by using any of the following approaches:		Υ				
 One-way hashes based on strong cryptography. (hash must be of the entire 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	N/A					
authentication and access control mechanisms (for example, by not using local user account 3.5 Document and implement procedures to protect keys used to secure stored cardholder data						
against disclosure and misuse:	N/A					
3.5.1 Additional requirement for service providers only: Maintain a documented description						
of the cryptographic architecture that includes:	N/A					
 Details of all algorithms, protocols, and keys used for the protection of cardholder data. 3.5.2 Restrict access to cryptographic keys to the fewest number of custodians necessary. 						
3 4	N/A					
3.5.3 Store secret and private keys used to encrypt/decrypt cardholder data in one (or more) of	N/A					
the following forms at all times:	N/A					
• Encrypted with a key-encrypting key that is at least as strong as the data-encrypting key, and 3.5.4 Store cryptographic keys in the fewest possible locations.						
	N/A					
3.6 Fully document and implement all key-management processes and procedures for	N/A					
cryptographic keys used for encryption of cardholder data, including the following:						
3.6.1 Generation of strong cryptographic keys						
	N/A					
3.6.2 Secure cryptographic key distribution						
3.0.2 Secure dryptographic key distribution	N/A					
3.6.3 Secure cryptographic key storage						
	N/A					
3.6.4 Cryptographic key changes for keys that have reached the end of their cryptoperiod (for						
example, after a defined period of time has passed and/or after a certain amount of cipher-text	N/A					
has been produced by a given key) as defined by the associated application vendor or key				_		-
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	N/A					
of an employee with knowledge of a clear-text key component) or keys are suspected of being 3.6.6 If manual clear-text cryptographic key-management operations are used, these operations						
must be managed using split knowledge and dual control.	N/A					
3.6.7 Prevention of unauthorized substitution of cryptographic keys.	NI/A					
	N/A					
3.6.8 Requirement for cryptographic key custodians to formally acknowledge that they						
understand and accept their key-custodian responsibilities.	N/A					
3.7 Ensure that security policies and operational procedures for protecting stored cardholder	V					
data are documented, in use, and known to all affected parties.						

Requirement 4: Encrypt transmission of cardholder data across open, public networks					
4.1 Use strong cryptography and security protocols to safeguard sensitive cardholder data					
during transmission over open, public networks, including the following:	N/A				
 Only trusted keys and certificates are accepted. 4.1.1 Ensure wireless networks transmitting cardholder data or connected to the cardholder data 					
environment, use industry best practices to implement strong encryption for authentication and transmission	N/A				
4.2 Never send unprotected PANs by end-user messaging technologies (for example, e-mail,	N/A				
instant messaging, SMS, chat, etc.).	N/A				
4.3 Ensure that security policies and operational procedures for encrypting transmissions of cardholder data are documented, in use, and known to all affected parties.	Y				
Requirement 5: Use and regularly update anti-virus software or programs					
5.1 Deploy anti-virus software on all systems commonly affected by malicious software (particularly personal computers and servers).	Y				
5.1.1 Ensure that anti-virus programs are capable of detecting, removing, and protecting against	v				
all known types of malicious software.	Y				
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	Υ				
whether such systems continue to not require anti-virus software					
5.2 Ensure that all anti-virus mechanisms are maintained as follows:	Υ				
 Are kept current. 5.3 Ensure that anti-virus mechanisms are actively running and cannot be disabled or altered by 		$\vdash \vdash \vdash$	\vdash	-	
users, unless specifically authorized by management on a case-by-case basis for a limited time	Y				
neriod 5.4 Ensure that security policies and operational procedures for protecting systems against		-			
malware are documented, in use, and known to all affected parties.	Y				
Requirement 6: Develop and maintain secure systems and applications					
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.	Y				
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.	Υ				
Note: Critical security patches should be identified according to the risk ranking process defined					
6.3 Develop internal and external software applications (including web-based administrative	, , , , , , , , , , , , , , , , , , ,				
access to applications) securely, as follows:	Y				
6.3.1 Remove development, test and/or custom application accounts, user IDs, and passwords before applications become active or are released to customers.	Y				
		\vdash			
6.3.2 Review custom code prior to release to production or customers in order to identify any potential coding vulnerability (using either manual or automated processes) to include at least	Υ				
the following: 6.4 Follow change control processes and procedures for all changes to system components. The		\vdash	\vdash		
processes must include the following:	Y				
6.4.1 Separate development/test environments from production environments, and enforce the		\vdash			
separation with access controls.	Y				
6.4.2 Separation of duties between development/test and production environments	,,				
	Y				
6.4.3 Production data (live PANs) are not used for testing or development	Y				
		\square			
6.4.4 Removal of test data and accounts from system components before the system becomes active/goes into production.	Y				
6.4.5 Change control procedures must include the following:		\vdash	-		
Grange controt procedures must include the following.	Y				
6.4.5.1 Documentation of impact.		$\vdash \vdash \vdash$			
	Y				
6.4.5.2 Documented change approval by authorized parties.					
	Y				
6.4.5.3 Functionality testing to verify that the change does not adversely impact the security of	V				
the system.	Y				
6.4.5.4 Back-out procedures.	V				
6.4.6 Upon completion of a significant change, all relevant PCI DSS requirements must be implemented on all new or changed systems and networks, and documentation updated as	N/A				
applicable		$\parallel \parallel \parallel$			
 6.5 Address common coding vulnerabilities in software-development processes as follows: Train developers at least annually in up-to-date secure coding techniques, including how to 	Y				
avoid common coding vulnerabilities Note: Requirements 6.5.1 through 6.5.6, below, apply to all applications (internal or external).		$\vdash \vdash \vdash$	\vdash		
Troce. Regularities 0.5.1 dillough 0.5.0, below, apply to all applications (internal of external).	Y				

6.5.1 Injection flaws, particularly SQL injection. Also consider OS Command Injection, LDAP and XPath injection flaws as well as other injection flaws.	Y			
6.5.2 Buffer overflows	Y			
6.5.3 Insecure cryptographic storage		\vdash	\vdash	
	Y			
6.5.4 Insecure communications	Y			
6.5.5 Improper error handling	Y			
6.5.6 All "high risk" vulnerabilities identified in the vulnerability identification process (as defined in PCI DSS Requirement 6.1).	Y			
Note: Requirements 6.5.7 through 6.5.10, below, apply to web applications and application interfaces	Y			
6.5.7 Cross-site scripting (XSS)	Y			
6.5.8 Improper access control (such as insecure direct object references, failure to restrict URL access, directory traversal, and failure to restrict user access to functions).	Y		H	
6.5.9 Cross-site request forgery (CSRF)	Y			
6.5.10 Broken authentication and session management		\vdash	\vdash	
	Y		$\sqcup \sqcup$	
6.6 For public-facing web applications, address new threats and vulnerabilities on an ongoing basis and ensure these applications are protected against known attacks by either of the following methods:	Y			
6.7 Ensure that security policies and operational procedures for developing and maintaining secure systems and applications are documented, in use, and known to all affected parties.	Y		Ш	
Requirement 7: Restrict access to cardholder data by business need to know				
7.1 Limit access to system components and cardholder data to only those individuals whose job requires such access.			Y	
 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 			Y	
 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 		Н	v	
responsibilities. 7.1.3 Assign access based on individual personnel's job classification and function.	\vdash	$\vdash \vdash$	'	
7.2.3 / leasing in decease bused on initial values person initial special control of the control			Y	
7.1.4 Require documented approval by authorized parties specifying required privileges.			Y	
7.2 Establish an access control system(s) for systems components that restricts access based on a user's need to know, and is set to "deny all" unless specifically allowed. This access control system(s) must include the following:			Y	
7.2.1 Coverage of all system components			Y	
7.2.2 Assignment of privileges to individuals based on job classification and function.			Y	
7.2.3 Default "deny-all" setting.			Y	
7.3 Ensure that security policies and operational procedures for restricting access to cardholder data are documented, in use, and known to all affected parties.			Y	
Requirement 8: Assign a unique ID to each person with computer access				
8.1 Define and implement policies and procedures to ensure proper user identification management for non-consumer users and administrators on all system components as follows:	Y			
8.1.1 Assign all users a unique ID before allowing them to access system components or cardholder data.	Y			
8.1.2 Control addition, deletion, and modification of user IDs, credentials, and other identifier objects.	Y			
8.1.3 Immediately revoke access for any terminated users.			Y	
8.1.4 Remove/disable inactive user accounts within 90 days.			Y	
8.1.5 Manage IDs used by third parties to access, support, or maintain system components via		\vdash		
remote access as follows: • Enabled only during the time period needed and disabled when not in use.	Y			

8.1.6 Limit repeated access attempts by locking out the user ID after not more than six attempts.	Y			
8.1.7 Set the lockout duration to a minimum of 30 minutes or until an administrator enables the user ID.	Y			
8.1.8 If a session has been idle for more than 15 minutes, require the user to re-authenticate to reactivate the terminal or session.	Y			
 8.2 In addition to assigning a unique ID, ensure proper user-authentication management for non-consumer users and administrators on all system components by employing at least one of the following methods to authenticate all users: Something you know, such as a password or passphrase Something you have, such as a token device or smart card Something you are, such as a biometric. 			Y	
8.2.1 Using strong cryptography, render all authentication credentials (such as passwords/phrases) unreadable during transmission and storage on all system components.	N/A			
8.2.2 Verify user identity before modifying any authentication credential—for example, performing password resets, provisioning new tokens, or generating new keys.	Y			
 8.2.3 Passwords/passphrases must meet the following: Require a minimum length of at least seven characters. Contain both numeric and alphabetic characters. 8.2.4 Change user passwords/passphrases at least once every 90 days. 	Y		Y	
8.2.5 Do not allow an individual to submit a new password/passphrase that is the same as any of the last four passwords/passphrases he or she has used.	Y			
8.3 Secure all individual non-console administrative access and all remote access to the CDE using multi-factor authentication.	Y			
8.3.1 Incorporate multi-factor authentication for all non-console access into the CDE for personnel with administrative access.	Y	Н		
8.3.2 Incorporate multi-factor authentication for all remote network access (both user and administrator, and including third party access for support or maintenance) originating from outside the entity's network	Y			
 8.4 Document and communicate authentication policies and procedures to all users including: Guidance on selecting strong authentication credentials Guidance for how users should protect their authentication credentials 	Y			
 8.5 Do not use group, shared, or generic IDs, passwords, or other authentication methods as follows: Generic user IDs are disabled or removed. Shared user IDs do not exist for system administration and other critical functions. Shared and generic user IDs are not used to administer any system components. 			Y	
8.5.1 Additional requirement for service providers only: 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 8.6 Where other authentication mechanisms are used (for example, physical or logical security tokens, smart cards, certificates, etc.), use of these mechanisms must be assigned as follows:	N/A			
8.7 All access to any database containing cardholder data (including access by applications, administrators, and all other users) is restricted as follows:	N/A			
8.8 Ensure that security policies and operational procedures for identification and authentication are documented, in use, and known to all affected parties.	Y			
Requirement 9: Restrict physical access to cardholder data				
9.1 Use appropriate facility entry controls to limit and monitor physical access to systems in the cardholder data environment.	Y			
9.1.1 Use either video cameras or access control mechanisms (or both) 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	Y			
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	Y			
 9.1.3 Restrict physical access to wireless access points, gateways, handheld devices, networking/communications hardware, and telecommunication lines. 9.2 Develop procedures to easily distinguish between onsite personnel and visitors, to include: 	Y			
 Identifying onsite personnel and visitors (for example, assigning badges) Changes to access requirements 9.3 Control physical access for onsite personnel to sensitive areas as follows: 	Y			
 Access must be authorized and based on individual job function. Access is revoked immediately upon termination, and all physical access mechanisms, such as 9.4 Implement procedures to identify and authorize visitors. 	Y	\parallel		
Procedures should include the following: 9.4.1 Visitors are authorized before entering, and escorted at all times within, areas where	Y	$\vdash \vdash$		
cardholder data is processed or maintained. 9.4.2 Visitors are identified and given a badge or other identification that expires and that visibly distinguished the visitors from another processed.	Y	$\vdash \vdash$	\vdash	
distinguishes the visitors from onsite personnel. 9.4.3 Visitors are asked to surrender the badge or identification before leaving the facility or at the date of expiration.	Y	$\ \cdot\ $		
are date of expiration.				

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.	Y			
Document the visitor's name, the firm represented, and the onsite personnel authorizing physical				
9.5 Physically secure all media.	N/A			
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.	N/A			
9.6 Maintain strict control over the internal or external distribution of any kind of media, including	-	-+		
the following:	N/A			
9.6.1 Classify media so the sensitivity of the data can be determined.		-		
	N/A			
9.6.2 Send the media by secured courier or other delivery method that can be accurately tracked.				
	N/A			
9.6.3 Ensure management approves any and all media that is moved from a secured area	N/A			
(including when media is distributed to individuals).	18/7			
9.7 Maintain strict control over the storage and accessibility of media.	N/A			
9.7.1 Properly maintain inventory logs of all media and conduct media inventories at least annually.	N/A			
9.8 Destroy media when it is no longer needed for business or legal reasons as follows:				
Destroy media when it is no tonger needed for business or legal reasons as follows.	N/A			
9.8.1 Shred, incinerate, or pulp hard-copy materials so that cardholder data cannot be				
reconstructed. Secure storage containers used for materials that are to be destroyed.	N/A			
9.8.2 Render cardholder data on electronic media unrecoverable so that cardholder data cannot		-		
be reconstructed.	N/A			
9.9 Protect devices that capture payment card data via direct physical interaction with the card				
from tampering and substitution.	N/A			
9.9.1 Maintain an up-to-date list of devices. The list should include the following:	N/A			
 Make, model of device Location of device (for example, the address of the site or facility where the device is located) 	IN/A			
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	N/A			
characteristics to verify it has not been swapped with a fraudulent device)				
9.9.3 Provide training for personnel to be aware of attempted tampering or replacement of devices. Training should include the following:	N/A			
 Verify the identity of any third-party persons claiming to be repair or maintenance personnel. 9.10 Ensure that security policies and operational procedures for restricting physical access to 		-		
cardholder data are documented, in use, and known to all affected parties.	Υ			
Requirement 10: Track and monitor all access to network resources and cardholder data				
10.1 Implement audit trails to link all access to system components to each individual user.				
	Y			
10.2 Implement automated audit trails for all system components to reconstruct the following	v			
events:	Y			
10.2.1 All individual user accesses to cardholder data	N/A			
10.2.2 All actions taken by any individual with root or administrative privileges	Υ			
10.2.3 Access to all audit trails		-		
10.2.3 Access to att addit traits	Υ			
10.2.4 Invalid logical access attempts		-+	-	
	Υ			
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	Υ			
deletions to accounts with root or administrative privileges 10.2.6 Initialization, stopping, or pausing of the audit logs				
	Y			
10.2.7 Creation and deletion of system-level objects	V			
10.3 Record at least the following audit trail entries for all system components for each event:	Υ			
10.2.1 Hassidant'S setting				
10.3.1 User identification	Y			
10.3.2 Type of event				
20.0.2 Type of event	Y			
10.3.3 Date and time				
	Y			
10.3.4 Success or failure indication				
	Υ			

10.3.5 Origination of event	Y	
10.3.6 Identity or name of affected data, system component, or resource.	Y	
10.4 Using time-synchronization technology, synchronize all critical system clocks and times and		
ensure that the following is implemented for acquiring, distributing, and storing time.	Y	
10.4.1 Critical systems have the correct and consistent time.	Y	
10.4.2 Time data is protected.	Y	
10.4.3 Time settings are received from industry-accepted time sources.	Y	
10.5 Secure audit trails so they cannot be altered.	Y	
10.5.1 Limit viewing of audit trails to those with a job-related need.	Y	
10.5.2 Protect audit trail files from unauthorized modifications.	Y	
10.5.3 Promptly back up audit trail files to a centralized log server or media that is difficult to alter.	Y	
10.5.4 Write logs for external-facing technologies onto a secure, centralized, internal log server	Y Y	
or media device. 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)	Y	
10.6 Review logs and security events for all system components to identify anomalies or suspicious activity.	Y	
 10.6.1 Review the following at least daily: All security events Logs of all system components that store, process, or transmit CHD and/or SAD 	Y	
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	Y	
10.6.3 Follow up exceptions and anomalies identified during the review process.	Y	
10.7 Retain audit trail history for at least one year, with a minimum of three months immediately available for analysis (for example, online, archived, or restorable from backup).	Y	
10.8 Additional requirement for service providers only: Implement a process for the timely detection and reporting of failures of critical security control systems, including but not limited to	Y	
failure of: 10.8.1 Additional requirement for service providers only: Respond to failures of any critical security controls in a timely manner. Processes for responding to failures in security controls	Y	
10.9 Ensure that security policies and operational procedures for monitoring all access to network resources and cardholder data are documented, in use, and known to all affected	Y	
Requirement 11: Regularly test security systems and processes		
11.1 Implement processes to test for the presence of wireless access points (802.11), and detect and identify all authorized and unauthorized wireless access points on a quarterly basis.	Y	
11.1.1 Maintain an inventory of authorized wireless access points including a documented business justification.	Y	
11.1.2 Implement incident response procedures in the event unauthorized wireless access points are detected.	Y	
11.2 Run internal and external network vulnerability scans at least quarterly and after any significant change in the network (such as new system component installations, changes in	Y	
network topology firewall rule modifications product upgrades) 11.2.1 Perform quarterly internal vulnerability scans. Address vulnerabilities and perform rescans to verify all "high risk" vulnerabilities are resolved in accordance with the entity's	Y	
vulnerability ranking (per Requirement 6.1). Scans must be performed by qualified personnel 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	Y	
as needed, until passing scans are achieved 11.2.3 Perform internal and external scans, and rescans as needed, after any significant change. Scans must be performed by qualified personnel.	Y	
 11.3 Implement a methodology for penetration testing that includes the following: Is based on industry-accepted penetration testing approaches (for example, NIST SP800-115) Includes coverage for the entire CDE perimeter and critical systems 	Y	
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 subnetwork added to the environment or a web server added to the environment)	Y	
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 subnetwork added to the environment or a web server added to the environment)	Y	
11.3.3 Exploitable vulnerabilities found during penetration testing are corrected and testing is repeated to verify the corrections.	Y	

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	Y				
segmentation methods are operational and effective, and isolate all out-of-scope systems from 11.3.4.1 Additional requirement for service providers only: If segmentation is used, confirm					
PCI DSS scope by performing penetration testing on segmentation controls at least every six	Υ				
months and after any changes to segmentation controls/methods					
11.4 Use intrusion-detection and/or intrusion-prevention techniques to detect and/or prevent					
intrusions into the network. Monitor all traffic at the perimeter of the cardholder data	Y				
environment as well as at critical points in the cardholder data environment, and alert personnel 11.5 Deploy a change-detection mechanism (for example, file-integrity monitoring tools) to alert		_			
personnel to unauthorized modification (including changes, additions, and deletions) of critical	Υ				
system files, configuration files, or content files; and configure the software to perform critical file					
11.5.1 Implement a process to respond to any alerts generated by the change-detection					
solution.	Y				
11.6 Engure that accurity policies and energtional procedures for accurity manitoring and testing		\vdash			
11.6 Ensure that security policies and operational procedures for security monitoring and testing are documented, in use, and known to all affected parties.	Y				
are documented, in use, and known to all affected parties.					
Requirement 12: Maintain a policy that addresses information security for all personnel					
12.1 Establish, publish, maintain, and disseminate a security policy.					
12.1 Establish, publish, maintain, and disseminate a security policy.	Y				
12.1.1 Review the security policy at least annually and update the policy when the environment					
changes.	Υ				
12.2 Implement a rich accessment was as a that					
 12.2 Implement a risk-assessment process that: Is performed at least annually and upon significant changes to the environment (for example, 	Υ				
Is performed at least annually and upon significant changes to the environment (for example, acquisition merger relocation etc.)					
12.3 Develop usage policies for critical technologies and define proper use of these technologies.					
	Υ				
Note: Fxamples of critical technologies include but are not limited to remote access and					
12.3.1 Explicit approval by authorized parties	Y				
12.3.2 Authentication for use of the technology					
	Υ				
		-			
12.3.3 A list of all such devices and personnel with access	v				
12.3.4 A method to accurately and readily determine owner, contact information, and purpose					
(for example, labeling, coding, and/or inventorying of devices)	Υ				
12.3.5 Acceptable uses of the technology	v				
	,				
12.3.6 Acceptable network locations for the technologies					
	Υ				
12.3.7 List of company-approved products	v				
	Y				
12.3.8 Automatic disconnect of sessions for remote-access technologies after a specific period of					
inactivity	Υ				
12.3.9 Activation of remote-access technologies for vendors and business partners only when	v				
needed by vendors and business partners, with immediate deactivation after use	'				
12.3.10 For personnel accessing cardholder data via remote-access technologies, prohibit the					
copying, moving, and storage of cardholder data onto local hard drives and removable electronic	Υ				
media_unless explicitly authorized for a defined business need					
12.4 Ensure that the security policy and procedures clearly define information security	v				
responsibilities for all personnel.	Y				
12.4.1 Additional requirement for service providers only: Executive management shall					
establish responsibility for the protection of cardholder data and a PCI DSS compliance program	Υ				
to include:					
12.5 Assign to an individual or team the following information security management	V				
responsibilities:	Y				
12.5.1 Establish, document, and distribute security policies and procedures.					
, and an analysis and procedures.	Υ				
12.5.2 Monitor and analyze security alerts and information, and distribute to appropriate					
personnel.	Y				
12.5.3 Establish, document, and distribute security incident response and escalation procedures					
to ensure timely and effective handling of all situations.	Υ				
12.5.4 Administer user accounts, including additions, deletions, and modifications.					
	Y				
12.5.5 Monitor and control all access to data.					
	Υ				
12.6 Implement a formal security awareness program to make all personnel aware of the					
cardholder data security policy and procedures.	Y				
12.6.1 Educate personnel upon hire and at least annually.					
	Υ				
Note: Methods can vary depending on the role of the personnel and their level of access to the				 	
12.6.2 Require personnel to acknowledge at least annually that they have read and understood					
the security policy and procedures.	Υ				

12.7 Screen potential personnel prior to hire to minimize the risk of attacks from internal sources.					
(Examples of background checks include previous employment history, criminal record, credit	Υ				
history and reference checks)					
12.8 Maintain and implement policies and procedures to manage service providers, with whom cardholder data is shared, or that could affect the security of cardholder data, as follows	Υ				
13.04 M : 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1		 \perp	_		
12.8.1 Maintain a list of service providers including a description of the service provided.	Y				
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	Υ				
otherwise store, process or transmit on behalf of the customer, or to the extent that they could					
12.8.3 Ensure there is an established process for engaging service providers including proper due diligence prior to engagement.	Y				
12.8.4 Maintain a program to monitor service providers' PCI DSS compliance status at least		_			
annually.	Y				
12.8.5 Maintain information about which PCI DSS requirements are managed by each service					
provider, and which are managed by the entity.	Y				
12.9 Additional requirement for service providers only: Service providers acknowledge in					
writing to customers that they are responsible for the security of cardholder data the service	Y				
provider possesses or otherwise stores, processes, or transmits on behalf of the customer, or to 12.10 Implement an incident response plan. Be prepared to respond immediately to a system					
breach.	Υ				
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:					
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	Υ				
Business recovery and continuity procedures Data healure procedures					
Data backup processes Analysis of logal requirements for reporting comprehises.					
Analysis of legal requirements for reporting compromises Coverage and responses of all critical system components.					
 Coverage and responses of all critical system components Reference or inclusion of incident response procedures from the payment brands. 					
			-		
12.10.2 Review and test the plan, including all elements listed in Requirement 12.10.1, at least annually.	Y				
annually.					
12.10.3 Designate specific personnel to be available on a 24/7 basis to respond to alerts.					
	Υ				
10.10.10		 \perp			
12.10.4 Provide appropriate training to staff with security breach response responsibilities.	v				
	'				
12.10.5 Include alerts from security monitoring systems, including but not limited to intrusion-					
detection, intrusion-prevention, firewalls, and file-integrity monitoring systems.	Υ				
		\perp			
12.10.6 Develop a process to modify and evolve the incident response plan according to lessons	v				
learned and to incorporate industry developments.	'				
12.11 Additional requirement for service providers only: Perform reviews at least quarterly to					
confirm personnel are following security policies and operational procedures. Reviews must	Υ				
cover the following processes:		 _			
12.11.1 Additional requirement for service providers only: Maintain documentation of	v				
quarterly review process to include: • Documenting results of the reviews	•				
Appendix A1: Additional PCI DSS Requirements for Shared Hosting Providers					
A1 Protect each entity's (that is marchent service provider or other water)					
A1 Protect each entity's (that is, merchant, service provider, or other entity) hosted environment	Y				
and data, per A1.1 through A1.4:					
A1.1 Ensure that each entity only runs processes that have access to that entity's cardholder					
data environment.	Υ				
A1.2 Postrict each antity's access and privileges to its own could also data antity with the			-		
A1.2 Restrict each entity's access and privileges to its own cardholder data environment only.	Υ				
A1.3 Ensure logging and audit trails are enabled and unique to each entity's cardholder data					
environment and consistent with PCI DSS Requirement 10.	Υ				
A1.4 Enable processes to provide for timely forestic investigation in the			-		
A1.4 Enable processes to provide for timely forensic investigation in the event of a compromise to any hosted merchant or service provider.	Υ				
to any hosted merchant of service provider.					
Appendix A2: Additional PCI DSS Requirements for Entities using SSL/early TLS					
Note: This Appendix applies to entities using SSI /early TLS as a security control to protect the A2.1 Where POS POI terminals (and the SSL/TLS termination points to which they connect) use			1		
SSL and/or early TLS, the entity must either	NA				
Confirm the devices are not susceptible to any known exploits for those protocols.				 	
A2.2 Entities with existing implementations (other than as allowed in A2.1) that use SSL and/or					
early TLS must have a formal Risk Mitigation and Migration Plan in place.	NA				
A2.3 Additional Requirement for Service Providers Only: All service providers must provide a	\vdash		+		
secure service offering by June 30, 2016.					
Secure Service Strening by June 30, 2010.					
Note: Prior to June 30, 2016, the service provider must either have a secure protocol option					
included in their service offering, or have a documented Risk Mitigation and Migration Plan (per	NA				
A2.2) that includes a target date for provision of a secure protocol option no later than June 30,					
2016. After this date, all service providers must offer a secure protocol option for their service.					