

## Payment Card Industry (PCI) Data Security Standard Self-Assessment Questionnaire D and Attestation of Compliance

# All other Merchants and all SAQ-Eligible Service Providers

Version 1.2

October 2008



## **Document Changes**

Date	Version	Description		
October 1, 2008	1.2	To align content with new PCI DSS v1.2 and to implement minor changes noted since original v1.1.		



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## PCI Data Security Standard: Related Documents

The following documents were created to assist merchants and service providers in understanding the PCI Data Security Standard and the PCI DSS SAQ.

Document	Audience
PCI Data Security Standard Requirements and Security Assessment Procedures	All merchants and service providers
Navigating PCI DSS: Understanding the Intent of the Requirements	All merchants and service providers
PCI Data Security Standard: Self-Assessment Guidelines and Instructions	All merchants and service providers
PCI Data Security Standard: Self-Assessment Questionnaire A and Attestation	Merchants <sup>1</sup>
PCI Data Security Standard: Self-Assessment Questionnaire B and Attestation	Merchants <sup>1</sup>
PCI Data Security Standard: Self-Assessment Questionnaire C and Attestation	Merchants <sup>1</sup>
PCI Data Security Standard: Self-Assessment Questionnaire D and Attestation	Merchants <sup>1</sup> and all service providers
PCI Data Security Standard and Payment Application Data Security Standard Glossary of Terms, Abbreviations, and Acronyms	All merchants and service providers

<sup>&</sup>lt;sup>1</sup> To determine the appropriate Self-Assessment Questionnaire, see *PCI Data Security Standard: Self-Assessment Guidelines and Instructions*, "Selecting the SAQ and Attestation That Best Apply To Your Organization."



## Before You Begin

## **Completing the Self-Assessment Questionnaire**

SAQ D has been developed for all SAQ-eligible service providers, and for all merchants not meeting the descriptions of SAQs A-C as described briefly in the table below and fully in *PCI DSS Self-Assessment Questionnaire Instructions and Guidelines.* 

SAQ Validation Type	Description	SAQ
1	Card-not-present (e-commerce or mail/telephone-order) merchants, all cardholder data functions outsourced. <i>This would never apply to face-to-face merchants.</i>	A
2	Imprint-only merchants with no electronic cardholder data storage	В
3	Stand-alone terminal merchants, no electronic cardholder data storage	В
4	Merchants with POS systems connected to the Internet, no electronic cardholder data storage	С
5	All other merchants (not included in descriptions for SAQs A-C above) and <b>all</b> service providers defined by a payment brand as eligible to complete an SAQ.	D

These merchants not meeting the criteria for SAQs A-C above and all service providers defined by a payment brand as being SAQ-eligible are defined as SAQ Validation Type 5, here and in the *PCI DSS Self-Assessment Questionnaire Instructions and Guidelines.* 

While many of the organizations completing SAQ D will need to validate compliance with every PCI DSS requirement, some organizations with very specific business models may find that some requirements do not apply. For example, a company that does not use wireless technology in any capacity would not be expected to validate compliance with the sections of the PCI DSS that are specific to wireless technology. See the guidance below for information about the exclusion of wireless technology and certain other, specific requirements.

Each section of this questionnaire focuses on a specific area of security, based on the requirements in the PCI Data Security Standard.

### PCI DSS Compliance – Completion Steps

- 1. Complete the Self-Assessment Questionnaire (SAQ D) according to the instructions in the Self-Assessment Questionnaire Instructions and Guidelines.
- 2. Complete a passing vulnerability scan with a PCI SSC Approved Scanning Vendor (ASV), and obtain evidence of a passing scan from the ASV.
- 3. Complete the Attestation of Compliance in its entirety.
- 4. Submit the SAQ, evidence of a passing scan, and the Attestation of Compliance, along with any other requested documentation, to your acquirer (for merchants) or to the payment brand or other requester (for service providers).



## Guidance for Non-Applicability and Exclusion of Certain, Specific Requirements

**Exclusion:** If you are required to answer SAQ D to validate your PCI DSS compliance, the following exceptions may be considered. See "Non-Applicability" below for the appropriate SAQ response.

- The questions specific to wireless only need to be answered if wireless is present anywhere in your network (for example, Requirements 1.2.3, 2.1.1, and 4.1.1). Note that Requirement 11.1 (use of wireless analyzer) must still be answered even if wireless is not in your network, since the analyzer detects any rogue or unauthorized devices that may have been added without the merchant's knowledge.
- The questions specific to custom applications and code (Requirements 6.3-6.5) only need to be answered if your organization writes its own custom web applications.
- The questions for Requirements 9.1-9.4 only need to be answered for facilities with "sensitive areas" as defined here. "Sensitive areas" refers to any data center, server room or any area that houses systems that store, process, or transmit cardholder data. This excludes the areas where only point-of-sale terminals are present, such as the cashier areas in a retail store.

**Non-Applicability:** These and any other requirements deemed not applicable to your environment must be indicated with "N/A" in the "Special" column of the SAQ. Accordingly, complete the "Explanation of Non-Applicability" worksheet in the Appendix for each "N/A" entry.



## Attestation of Compliance, SAQ D—Merchant Version

#### Instructions for Submission

The merchant must complete this Attestation of Compliance as a declaration of the merchant's compliance status with the *Payment Card Industry Data Security Standard (PCI DSS) Requirements and Security Assessment Procedures.* Complete all applicable sections and refer to the submission instructions at PCI DSS Compliance – Completion Steps in this document.

#### Part 1. Qualified Security Assessor Company Information (if applicable)

Company Name:			
Lead QSA Contact Name:	Title:		
Telephone:	E-mail:		
Business Address:	City:		
State/Province:	Country:	ZIP:	
URL:		· · ·	

#### Part 2. Merchant Organization Information

Company Name:	DBA(S):		
Contact Name:	Title:		
Telephone:	E-mail:		
Business Address:	City:		
State/Province:	Country:	ZIP:	
URL:			

Part 2a. Type of merchant business (check all that apply):					
Retailer	Telecommunication		Grocery and Supermarkets		
Petroleum	E-Commerce		Mail/Telephone-Order		
Others (please specify):					
List facilities and locations i	ncluded in PCI DSS review:				
Part 2b. Relationship	S				
Does your company have a relationship with one or more third-party service providers (for example, gateways, web-hosting companies, airline booking agents, loyalty program agents, etc)?					
Does your company have a	a relationship with more than one a	acquirer?	Yes No		
Part 2c. Transaction	Processing				
Payment Application in use	:		Payment Application Version:		



#### Part 3. PCI DSS Validation

Based on the results noted in the SAQ D dated (completion date), (Merchant Company Name) asserts the following compliance status (check one):

Compliant: All sections of the PCI SAQ are complete, all questions answered affirmatively, resulting in an
overall COMPLIANT rating; and a passing scan has been completed by a PCI SSC Approved Scan Vendor,
thereby (Merchant Company Name) has demonstrated full compliance with the PCI DSS.

Non-Compliant: Not all sections of the PCI DSS SAQ are complete, or not all questions are answered "yes," resulting in an overall NON-COMPLIANT rating, or a passing scan has not been completed by a PCI SSC Approved Scan Vendor, thereby (Merchant Company Name) has not demonstrated full compliance with the PCI DSS.

Target Date for Compliance:

An entity submitting this form with a status of Non-Compliant may be required to complete the Action Plan in Part 4 of this document. *Check with your acquirer or the payment brand(s) before completing Part 4, since not all payment brands require this section.* 

#### Part 3a. Confirmation of Compliant Status

#### Merchant confirms:

PCI DSS Self-Assessment Questionnaire D, Version (version of SAQ), was completed according to the instructions therein.
All information within the above-referenced SAQ and in this attestation fairly represents the results of my assessment in all material respects.
I have confirmed with my payment application vendor that my payment system does not store sensitive authentication data after authorization.
I have read the PCI DSS and I recognize that I must maintain full PCI DSS compliance at all times.
No evidence of magnetic stripe (i.e., track) data <sup>2</sup> , CAV2, CVC2, CID, or CVV2 data <sup>3</sup> , or PIN data <sup>4</sup> storage after transaction authorization was found on ANY systems reviewed during this assessment.

#### Part 3b. Merchant Acknowledgement

Signature of Merchant Executive Officer ↑	Date 🛧
Merchant Executive Officer Name ↑	<i>Title</i> ↑

Merchant Company Represented ↑

<sup>&</sup>lt;sup>2</sup> Data encoded in the magnetic stripe used for authorization during a card-present transaction. Entities may not retain full magnetic-stripe data after transaction authorization. The only elements of track data that may be retained are account number, expiration date, and name.

<sup>&</sup>lt;sup>3</sup> The three- or four-digit value printed on or to the right of the signature panel or on the face of a payment card used to verify cardnot-present transactions.

<sup>&</sup>lt;sup>4</sup> Personal Identification Number entered by cardholder during a card-present transaction, and/or encrypted PIN block present within the transaction message.



#### Part 4. Action Plan for Non-Compliant Status

Please select the appropriate "Compliance Status" for each requirement. If you answer "NO" to any of the requirements, you are required to provide the date Company will be compliant with the requirement and a brief description of the actions being taken to meet the requirement. *Check with your acquirer or the payment brand(s)* before completing Part 4, since not all payment brands require this section.

		Compliance Status (Select One)		Remediation Date and Actions
PCI DSS Requirement	Description of Requirement	YES	NO	(if Compliance Status is "NO")
1	Install and maintain a firewall configuration to protect cardholder data			
2	Do not use vendor-supplied defaults for system passwords and other security parameters			
3	Protect stored cardholder data			
4	Encrypt transmission of cardholder data across open, public networks			
5	Use and regularly update anti-virus software			
6	Develop and maintain secure systems and applications			
7	Restrict access to cardholder data by business need to know			
8	Assign a unique ID to each person with computer access			
9	Restrict physical access to cardholder data			
10	Track and monitor all access to network resources and cardholder data			
11	Regularly test security systems and processes			
12	Maintain a policy that addresses information security			



## Attestation of Compliance, SAQ D—Service Provider Version

#### Instructions for Submission

The service provider must complete this Attestation of Compliance as a declaration of the service provider's compliance status with the *Payment Card Industry Data Security Standard (PCI DSS) Requirements and Security Assessment Procedures.* Complete all applicable sections and refer to the submission instructions at "PCI DSS Compliance – Completion Steps" in this document.

#### Part 1. Qualified Security Assessor Company Information (if applicable)

Company Name:		
Lead QSA Contact Name:	Title:	
Telephone:	E-mail:	
Business Address:	City:	
State/Province:	Country:	ZIP:
URL:		

Part 2. Service Provider Organization InformationCompany Name:Title:Contact Name:Title:Telephone:E-mail:Business Address:City:State/Province:Country:URL:E-mail:

Part 2a. Services								
Services Provided (check all that apply):								
Authorization	Loyalty Programs	3-D Secure Access Control Server						
Switching	IPSP (E-commerce)	Process Magnetic-Stripe Transactions						
Payment Gateway	Clearing & Settlement	Process MO/TO Transactions						
Hosting	Issuing Processing	Others (please specify):						

List facilities and locations included in PCI DSS review:

#### Part 2b. Relationships

Does your company have a relationship with one or more third-party service providers (for example, gateways, web-hosting companies, airline booking agents, loyalty program agents, etc)?

#### Part 2c: Transaction Processing

How and in what capacity does your business store, process and/or transmit cardholder data?

Payment Applications in use or provided as part of your service: Payment Application Version:



#### Part 3. PCI DSS Validation

Based on the results noted in the SAQ D dated (completion date of SAQ), (Service Provider Company Name) asserts the following compliance status (check one):

Compliant: All sections of the PCI SAQ are complete, and all questions answered "yes", resulting in an overall COMPLIANT rating; and a passing scan has been completed by a PCI SSC Approved Scan Vendor, thereby (Service Provider Company Name) has demonstrated full compliance with the PCI DSS.

Non-Compliant: Not all sections of the PCI SAQ are complete, or some questions are answered "no", resulting in an overall NON-COMPLIANT rating, or a passing scan has not been completed by a PCI SSC Approved Scan Vendor, thereby (Service Provider Company Name) has not demonstrated full compliance with the PCI DSS.

Target Date for Compliance:

An entity submitting this form with a status of Non-Compliant may be required to complete the Action Plan in Part 4 of this document. *Check with your acquirer or the payment brand(s) before completing Part 4, since not all payment brands require this section.* 

#### Part 3a. Confirmation of Compliant Status

#### Service Provider confirms:

Self-Assessment Questionnaire D, Version <i>(insert version number)</i> , was completed according to the instructions therein.
All information within the above-referenced SAQ and in this attestation fairly represents the results of my assessment.
I have read the PCI DSS and I recognize that I must maintain full PCI DSS compliance at all times.
No evidence of magnetic stripe (i.e., track) data <sup>5</sup> , CAV2, CVC2, CID, or CVV2 data <sup>6</sup> , or PIN data <sup>7</sup> storage after transaction authorization was found on ANY systems reviewed during this assessment.

#### Part 3b. Service Provider Acknowledgement

Signature of Service Provider Executive Officer $\uparrow$	Date ↑
Service Provider Executive Officer Name $\uparrow$	<i>Title</i> ↑

Service Provider Company Represented  $\uparrow$ 

<sup>&</sup>lt;sup>5</sup> Data encoded in the magnetic stripe used for authorization during a card-present transaction. Entities may not retain full magnetic-stripe data after transaction authorization. The only elements of track data that may be retained are account number, expiration date, and name.

<sup>&</sup>lt;sup>6</sup> The three- or four-digit value printed on or to the right of the signature panel or on the face of a payment card used to verify cardnot-present transactions.

<sup>&</sup>lt;sup>7</sup> Personal Identification Number entered by cardholder during a card-present transaction, and/or encrypted PIN block present within the transaction message.



#### Part 4. Action Plan for Non-Compliant Status

Please select the appropriate "Compliance Status" for each requirement. If you answer "NO" to any of the requirements, you are required to provide the date Company will be compliant with the requirement and a brief description of the actions being taken to meet the requirement. *Check with your acquirer or the payment brand(s)* before completing Part 4, since not all payment brands require this section.

	Compliance Status (Select One)			Remediation Date and Actions
PCI DSS Requirement	Description of Requirement	YES	NO	(if Compliance Status is "NO")
1	Install and maintain a firewall configuration to protect cardholder data			
2	Do not use vendor-supplied defaults for system passwords and other security parameters			
3	Protect stored cardholder data			
4	Encrypt transmission of cardholder data across open, public networks			
5	Use and regularly update anti-virus software			
6	Develop and maintain secure systems and applications			
7	Restrict access to cardholder data by business need to know			
8	Assign a unique ID to each person with computer access			
9	Restrict physical access to cardholder data			
10	Track and monitor all access to network resources and cardholder data			
11	Regularly test security systems and processes			
12	Maintain a policy that addresses information security			

### Date of Completion:

#### **Build and Maintain a Secure Network**

#### Requirement 1: Install and maintain a firewall configuration to protect data

	Que	estion F	Response:	Yes	<u>No</u>	Special*
1.1		established firewall and router configuration standard following?	ds include			
	1.1.1	A formal process for approving and testing all extern connections and changes to the firewall and router configurations?	nal network			
	1.1.2	Current network diagrams with all connections to ca data, including any wireless networks?	ardholder			
	1.1.3	Requirements for a firewall at each Internet connect between any demilitarized zone (DMZ) and the inte network zone?				
	1.1.4	Description of groups, roles, and responsibilities for management of network components?	· logical			
	1.1.5	Documentation and business justification for use of services, protocols, and ports allowed, including documentation of security features implemented for protocols considered to be insecure?				
	1.1.6	Requirement to review firewall and router rule sets a every six months)?	at least			
1.2	unti	es the firewall configuration restrict connections betwee rusted networks and any system in the cardholder da ironment as follows:				
	net	e: An "untrusted network" is any network that is exter works belonging to the entity under review, and/or wh he entity's ability to control or manage.				
	1.2.1.	Restrict inbound and outbound traffic to that which i necessary for the cardholder data environment?	is			
	1.2.2	Secure and synchronize router configuration files?				
	1.2.3	Include installation of perimeter firewalls between a networks and the cardholder data environment, and these firewalls to deny or control (if such traffic is ne for business purposes) any traffic from the wireless environment into the cardholder data environment?	d configure ecessary			

<sup>\* &</sup>quot;Not Applicable" (N/A) or "Compensating Control Used." Organizations using this section must complete the Compensating Control Worksheet or Explanation of Non-Applicability Worksheet, as appropriate, in the Appendix.



	Que	stion Response	: <u>ז</u>	<u>es</u>	<u>No</u>	Special*
1.3	betw	s the firewall configuration prohibit direct public access veen the Internet and any system component in the cardholde environment?	r			
	1.3.1	Is a DMZ implemented to limit inbound and outbound traffic to only protocols that are necessary for the cardholder environment?	;			
	1.3.2	Is inbound Internet traffic limited to IP addresses within the DMZ?				
	1.3.3	Are direct routes prohibited for inbound or outbound traffic between the Internet and the cardholder data environment?	?			
	1.3.4	Are internal addresses prohibited from passing from the Internet into the DMZ?				
	1.3.5	Is outbound traffic restricted from the cardholder data environment to the Internet such that outbound traffic can only access IP addresses within the DMZ?				
	1.3.6	Is stateful inspection, also known as dynamic packet filtering, implemented (that is, only established connections are allowed into the network)?				
	1.3.7	Is the database placed in an internal network zone, segregated from the DMZ?				
	1.3.8	Has IP-masquerading been implemented to prevent internal addresses from being translated and revealed on the Internet, using RFC 1918 address space? Use Network address translation (NAT) technologies—for example, port address translation (PAT).	al			
1.4	emp (for (	personal firewall software been installed on any mobile and/o loyee-owned computers with direct connectivity to the Interne example, laptops used by employees), which are used to ess the organization's network?				

<sup>\* &</sup>quot;Not Applicable" (N/A) or "Compensating Control Used." Organizations using this section must complete the Compensating Control Worksheet or Explanation of Non-Applicability Worksheet, as appropriate, in the Appendix.



## Requirement 2: Do not use vendor-supplied defaults for system passwords and other security parameters

	G	Question	Response:	Yes	<u>No</u>	Special*
2.1	sys Exa pro	e vendor-supplied defaults always changed <b>before</b> insta stem on the network? amples include passwords, simple network management stocol (SNMP) community strings, and elimination of necessary accounts.	-			
_	2.1.1	<ul> <li>(a) Are defaults** for wireless environments connect the cardholder data environment or transmitting cardholder data changed before installing a wire system?</li> <li>** Such wireless environment defaults include not limited to default wireless encryption key passwords, and SNMP community strings.</li> </ul>	eless but are			
		(b) Are wireless device security settings enabled fo encryption technology for authentication and transmissions?	r strong			
2.2	(a)	Have configuration standards been developed for all sp components?	ystem			
	(b)	Do these standards address all known security vulnera and are they consistent with industry-accepted system hardening standards—for example, SysAdmin Audit N Security (SANS), National Institute of Standards Techr (NIST), and Center for Internet Security (CIS)?	etwork			
	(c)	Do controls ensure the following?				
	2.2.1	Is only one primary function implemented per serve	r?			
	2.2.2	Are all unnecessary and insecure services and prot disabled (services and protocols not directly needed perform the device's specified function)?				
	2.2.3	Are system security parameters configured to preve misuse?	ent			
	2.2.4	Has all unnecessary functionality—such as scripts, features, subsystems, file systems, and unnecessa servers—been removed?				
2.3	Us	all non-console administrative access encrypted? e technologies such as SSH, VPN, or SSL/TLS for web magement and other non-console administrative access				

<sup>\* &</sup>quot;Not Applicable" (N/A) or "Compensating Control Used." Organizations using this section must complete the Compensating Control Worksheet or Explanation of Non-Applicability Worksheet, as appropriate, in the Appendix.



	Question	Response:	<u>Yes</u>	<u>No</u>	Special*
2.4	If you are a shared hosting provider, are your systems c to protect each entity's hosted environment and cardhole See Appendix A: Additional PCI DSS Requirements for Hosting Providers for specific requirements that must be	der data? Shared			



## **Protect Cardholder Data**

Require	ement 3:	Protect stored cardholder data			
	Questic	on Response:	<u>Yes</u>	<u>No</u>	Special*
3.1	amo	torage of cardholder data kept to a minimum, and is storage bunt and retention time limited to that which is required for iness, legal, and/or regulatory purposes?			
		here a data-retention and disposal policy, and does it include tations as stated in (a) above?	e 🗌		
3.2		systems adhere to the following requirements regarding of sensitive authentication data after authorization (even if ed)?			
3.		Do not store the full contents of any track from the magnetic stripe (located on the back of a card, contained in a chip, or elsewhere). This data is alternatively called full track, track, track 1, track 2, and magnetic-stripe data. 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, and • Service code To minimize risk, store only these data elements as needed for business. NEVER store the card verification code or value or PIN verification value data elements. Note: See PCI DSS and PA-DSS Glossary of Terms, Abbreviations, and Acronyms for additional information.			
3.	f	Do not store the card-validation 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. <i>Note: See</i> PCI DSS and PA-DSS Glossary of Terms, Abbreviations, and Acronyms <i>for additional information</i> .			
3		Do not store the personal identification number (PIN) or the encrypted PIN block.			
3.3	are the Notes: • Th pa • Th pla	PAN masked when displayed (the first six and last four digits maximum number of digits to be displayed)? is requirement does not apply to employees and other rties with a specific need to see the full PAN; is requirement does not supersede stricter requirements in ace for displays of cardholder data—for example, for point- sale (POS) receipts.			

<sup>\* &</sup>quot;Not Applicable" (N/A) or "Compensating Control Used." Organizations using this section must complete the Compensating Control Worksheet or Explanation of Non-Applicability Worksheet, as appropriate, in the Appendix.



	Que	stion Response:	<u>Yes</u>	<u>No</u>	Special*
3.4	(incl logs • • • • • • • • • • • • • • • • • • •	AN, at a minimum, rendered unreadable anywhere it is stored uding data on portable digital media, backup media, and in ,) by using any of the following approaches? One-way hashes based on strong cryptography Truncation Index tokens and pads (pads must be securely stored) Strong cryptography with associated key management processes and procedures. <i>MINIMUM account information that must be rendered</i> <i>eadable is the PAN.</i> <i>r some reason, a company is unable to render the PAN</i> <i>eadable, refer to Appendix B: "Compensating Controls."</i> <i>e: "Strong cryptography" is defined in the</i> PCI DSS and PA-DSS sary of Terms, Abbreviations, and Acronyms.			
	3.4.1	If disk encryption (rather than file- or column-level database encryption) is used:			
		(a) Is logical access managed independently of native operating system access control mechanisms (for example, by not using local user account databases)?			
		(b) Are decryption keys independent of user accounts?			
3.5		cryptographic keys used for encryption of cardholder data ected against both disclosure and misuse?			
	3.5.1	Is access to cryptographic keys restricted to the fewest number of custodians necessary?			
	3.5.2	Are cryptographic keys stored securely, and in the fewest possible locations and forms?			
3.6		Are all key-management processes and procedures for cryptographic keys used for encryption of cardholder data, fully documented and implemented? Do they include the following?			
	3.6.1	Generation of strong cryptographic keys			
	3.6.2	Secure cryptographic key distribution			
	3.6.3	Secure cryptographic key storage			
	3.6.4	<ul> <li>Periodic changing of cryptographic keys:</li> <li>As deemed necessary and recommended by the associated application (for example, re-keying), preferably automatically</li> <li>At least annually</li> </ul>			
	3.6.5	Retirement or replacement of old or suspected compromised cryptographic keys			
	3.6.6	Split knowledge and establishment of dual control of cryptographic keys			



	Question	Response:	<u>Yes</u>	<u>No</u>	Special*
3.6.	7 Prevention of unauthorized substitution of cr	yptographic keys			
3.6.	8 Requirement for cryptographic-key custodiar stating that they understand and accept their responsibilities.				

## Requirement 4: Encrypt transmission of cardholder data across open, public networks

	Qı	lestion	Response:	Yes	<u>No</u>	Special*
4.1	4.1 Are strong cryptography and security protocols, such as SSL/TLS or IPSEC, used to safeguard sensitive cardholder data during transmission over open, public networks?					
	D. M	xamples of open, public networks that are in scope SS are the Internet, wireless technologies, Global S obile communications (GSM), and General Packet SPRS).	System for			
	4.1.1	Are industry best practices (for example, IEEE to implement strong encryption for authentication transmission for wireless networks transmitting data or connected to the cardholder data environ	on and cardholder			
		Notes: For new wireless implementations, it is pro implement WEP after March 31, 2009.	ohibited to			
		<ul> <li>For current wireless implementations, it is use WEP after June 30, 2010.</li> </ul>	prohibited to			
4.2	se	e policies, procedures, and practices in place to pro- ending of unencrypted PANs by end-user messagin or example, e-mail, instant messaging, chat)?				

<sup>\* &</sup>quot;Not Applicable" (N/A) or "Compensating Control Used." Organizations using this section must complete the Compensating Control Worksheet or Explanation of Non-Applicability Worksheet, as appropriate, in the Appendix.



## Maintain a Vulnerability Management Program

#### Requirement 5: Use and regularly update anti-virus software or programs

	Que	estion	Response:	<u>Yes</u>	<u>No</u>	Special*
5.1		nti-virus software deployed on all systems, particula nputers and servers, commonly affected by malicion				
	5.1.1	Are all anti-virus programs capable of detecting, and protecting against all known types of malicic				
5.2		all anti-virus mechanisms current, actively running able of generating audit logs?	, and			

#### Requirement 6: Develop and maintain secure systems and applications

	Question Response:	Yes	<u>No</u>	Special*
6.1	(a) Do all system components and software have the latest vendor-supplied security patches installed?			
	(b) Are critical security patches installed within one month of release?			
	Note: An organization may consider applying a risk-based approach to prioritize their patch installations. For example, by prioritizing critical infrastructure (for example, public-facing devices and systems, databases) higher than less-critical internal devices, to ensure high-priority systems and devices are addressed within one month, and addressing less critical devices and systems within three months.			
6.2	(a) Is there a process to identify newly discovered security vulnerabilities (for example, subscribe to alert services freely available on the Internet)?			
	(b) Are configuration standards updated as required by PCI DSS Requirement 2.2 to address new vulnerability issues?			
6.3	(a) Are software applications developed in accordance with PCI DSS (for example, secure authentication and logging) and based on industry best practices, and do they incorporate information security throughout the software development life cycle?			
	(b) Do controls ensure the following?			
	6.3.1 Testing of all security patches and system and software configuration changes before deployment, including but not limited to the following:			
	6.3.1.1 Validation of all input (to prevent cross-site scripting, injection flaws, malicious file execution, etc.)			

<sup>&</sup>lt;sup>\*</sup> "Not Applicable" (N/A) or "Compensating Control Used." Organizations using this section must complete the Compensating Control Worksheet or Explanation of Non-Applicability Worksheet, as appropriate, in the Appendix.



	Que	stion	Response:	Yes	<u>No</u>	Special*
	6.3.1	2 Validation of proper error handling				
	6.3.1	.3 Validation of secure cryptographic storag	e			
	6.3.1	.4 Validation of secure communications				
	6.3.1	5 Validation of proper role-based access co	ontrol (RBAC)			
	6.3.2	Separate development/test and production en	vironments?			
	6.3.3	Separation of duties between development/tem production environments?	st and			
	6.3.4	Production data (live PANs) are not used for t development?	esting or			
	6.3.5	Removal of test data and accounts before pro systems become active?	duction			
	6.3.6	Removal of custom application accounts, use passwords before applications become active released to customers?				
	6.3.7	Review of custom code prior to release to pro customers in order to identify any potential co vulnerability? Note: This requirement for code reviews appli code (both internal and public-facing), as part development life cycle required by PCI DSS F 6.3. Code reviews can be conducted by know internal personnel. Web applications are also additional controls, if they are public-facing, to ongoing threats and vulnerabilities after imple defined at PCI DSS Requirement 6.6.	ding es to all custom of the system Requirement ledgeable subject to address			
6.4	(a)	Are change control procedures followed for all c system components?	hanges to			
	(b)	Do procedures ensure the following?				
	6.4.1	Documentation of impact?				
	6.4.2	Management sign-off by appropriate parties?				
	6.4.3	Testing of operational functionality?				
	6.4.4	Back-out procedures?				



		Ques	stion	Response:	<u>Yes</u>	<u>No</u>	Special*
6.5		v S	Are all web applications (internal and external, and web administrative access to application) developed secure coding guidelines such as the <i>Open Web Ap</i> Security Project Guide?	d based on			
6 6 6 6 6 6 6 6 6 6			s prevention of common coding vulnerabilities cove software development processes, including the follo				
		in the if and	: The vulnerabilities listed at 6.5.1 through 6.5.10 w e OWASP guide when PCI DSS v1.2 was publishe d when the OWASP guide is updated, the current v sed for these requirements.	d However,			
	6.5.1		Cross-side scripting (XSS)?				
	6.5.2	2	Injection flaws, particularly SQL injection?				
			Also consider LDAP and Xpath injection flaws as other injection flaws.	well as			
	6.5.3	}	Malicious file execution?				
	6.5.4	ŀ	Insecure direct object references?				
	6.5.5	,	Cross-site request forgery (CSRF)?				
	6.5.6	;	Information leakage and improper error handling?	2			
	6.5.7	,	Broken authentication and session management?	2			
	6.5.8	}	Insecure cryptographic storage?				
	6.5.9	)	Insecure communications?				
	6.5.1	0	Failure to restrict URL access?				
6.5 6.5 6.5 6.5 6.5 6.5 6.5		vulne appli	public-facing web applications, are new threats and erabilities addressed on an ongoing basis, and are cations protected against known attacks by applyin ollowing methods?	these			
		•	Reviewing public-facing web applications via man automated application vulnerability security asses or methods, at least annually and after any change	sment tools			
		•	Installing a web-application layer firewall in front o facing web applications.	f public-			

<sup>\* &</sup>quot;Not Applicable" (N/A) or "Compensating Control Used." Organizations using this section must complete the Compensating Control Worksheet or Explanation of Non-Applicability Worksheet, as appropriate, in the Appendix.



### **Implement Strong Access Control Measures**

#### Requirement 7: Restrict access to cardholder data by business need-to-know

	Que	estion Response:	Yes	<u>No</u>	Special*
7.1	7.1 (a) Is access to system components and cardholder data limited to only those individuals whose jobs require such access?				
	(b)	Do access limitations include the following:			
	7.1.1	Restriction of access rights to privileged user IDs to least privileges necessary to perform job responsibilities?			
	7.1.2	Assignment of privileges based on individual personnel's job classification and function?			
	7.1.3	Requirement for an authorization form signed by management that specifies required privileges?			
	7.1.4	Implementation of an automated access control system?			
7.2	(a)	Is an access control system in place for systems with multiple users to restrict access based on a user's need to know, and is it set to "deny all" unless specifically allowed?			
	(b)	Does this access control system include the following:			
	7.2.1	Coverage of all system components?			
	7.2.2	Assignment of privileges to individuals based on job classification and unction?			
	7.2.3	Default "deny-all" setting?			

#### Requirement 8: Assign a unique ID to each person with computer access

	Question Respo	nse:	<u>Yes</u>	<u>No</u>	<u>Special</u> *
8.1	Are all users assigned a unique ID before allowing them to accessive system components or cardholder data?	cess			
8.2	In addition to assigning a unique ID, is one or more of the follo methods employed to authenticate all users?	owing			
	<ul> <li>Password or passphrase</li> </ul>				
	<ul> <li>Two-factor authentication (for example, token devices, sm cards, biometrics, or public keys)</li> </ul>	nart			

<sup>&</sup>lt;sup>\*</sup> "Not Applicable" (N/A) or "Compensating Control Used." Organizations using this section must complete the Compensating Control Worksheet or Explanation of Non-Applicability Worksheet, as appropriate, in the Appendix.



	Que	estion Respon	nse:	Yes	<u>No</u>	Special*
8.3	(ne net Us (R/ (T/	wo-factor authentication incorporated for remote access twork-level access originating from outside the network) to t work by employees, administrators, and third parties? e technologies such as remote authentication and dial-in set ADIUS) or terminal access controller access control system ACACS) with tokens; or VPN (based on SSL/TLS or IPSEC) lividual certificates.	rvice			
8.4	sto (de	e all passwords rendered unreadable during transmission an rage on all system components using strong cryptography fined in <i>PCI DSS and PA-DSS Glossary of Terms, breviations, and Acronyms</i> )?	nd			
8.5	cor	e proper user authentication and password management htrols in place for non-consumer users and administrators or stem components, as follows?	n all			
8.5 - - -	8.5.1	Are addition, deletion, and modification of user IDs, credentials, and other identifier objects controlled?				
	8.5.2	Is user identity verified before performing password rese	ts?			
	8.5.3	Are first-time passwords set to a unique value for each u and must each user change their password immediately the first use?				
	8.5.4	Is access for any terminated users immediately revoked?	?			
	8.5.5	Are inactive user accounts removed or disabled at least every 90 days?				
	8.5.6	Are accounts used by vendors for remote maintenance enabled only during the time period needed?				
	8.5.7	Are password procedures and policies communicated to users who have access to cardholder data?	all			
	8.5.8	Are group, shared, or generic accounts and passwords prohibited?				
-	8.5.9	Must user passwords be changed at least every 90 days	?			
	8.5.10	Is a minimum password length of at least seven characte required?	ers			
	8.5.11	Must passwords contain both numeric and alphabetic characters?				
	8.5.12	Must an individual submit a new password that is differer from any of the last four passwords he or she has used?				
	8.5.13	Are repeated access attempts limited by locking out the ID after no more than six attempts?	user			

<sup>\* &</sup>quot;Not Applicable" (N/A) or "Compensating Control Used." Organizations using this section must complete the Compensating Control Worksheet or Explanation of Non-Applicability Worksheet, as appropriate, in the Appendix.



Que	estion	Response:	Yes	<u>No</u>	Special*
8.5.14	JestionResponse:Is the lockout duration set to a minimum of 30 minutes or until administrator enables the user ID?If a session has been idle for more than 15 minutes, must the user re-enter the password to re-activate the terminal?Is all access to any database containing cardholder data authenticated? (This includes access by applications, administrators, and all other users.)	ninutes or			
8.5.15					
8.5.16	authenticated? (This includes access by applica				

#### Requirement 9: Restrict physical access to cardholder data

	Ques	stion Response:	<u>Yes</u>	<u>No</u>	Special*
9.1		appropriate facility entry controls in place to limit and monitor ical access to systems in the cardholder data environment?			
	9.1.1	<ul> <li>(a) Do video cameras or other access-control mechanisms monitor individual physical access to sensitive areas?</li> <li>Note: "Sensitive areas" refers to any data center, server room, or any area that houses systems that store cardholder data. This excludes the areas where only point-of-sale terminals are present such as the cashier areas in a retail store.</li> </ul>			
		(b) Is data collected from video cameras reviewed and correlated with other entries?			
		(c) Is data from video cameras stored for at least three months, unless otherwise restricted by law?			
	9.1.2	Is physical access to publicly accessible network jacks restricted?			
	9.1.3	Is physical access to wireless access points, gateways, and handheld devices restricted?			
9.2	betw	procedures in place to help all personnel easily distinguish ween employees and visitors, especially in areas where holder data is accessible?			
	and and site. serv	burposes of this requirement, an "employee" refers to full-time part-time employees, temporary employees and personnel, contractors and consultants who are "resident" on the entity's A "visitor" is defined as a vendor, guest of an employee, ice personnel, or anyone who needs to enter the facility for a t duration, usually not more than one day.			
9.3	Are a	all visitors handled as follows:			
	9.3.1	Authorized before entering areas where cardholder data is processed or maintained?			

<sup>\* &</sup>quot;Not Applicable" (N/A) or "Compensating Control Used." Organizations using this section must complete the Compensating Control Worksheet or Explanation of Non-Applicability Worksheet, as appropriate, in the Appendix.



	Qu	estion Res	sponse:	Yes	<u>No</u>	Special*
	9.3.2	Given a physical token (for example, a badge or acce device) that expires and that identifies the visitors as employees?				
	9.3.3	Asked to surrender the physical token before leaving facility or at the date of expiration?	the			
9.4	(a)	Is a visitor log in use to maintain a physical audit trail of activity?	f visitor			
	(b)	Are the visitor's name, the firm represented, and the en authorizing physical access documented on the log?	nployee			
	(c)	Is visitor log retained for a minimum of three months, un otherwise restricted by law?	nless			
9.5	(a)	Are media back-ups stored in a secure location, prefera an off-site facility, such as an alternate or backup site, o commercial storage facility?				
	(b)	Is this location's security reviewed at least annually?				
9.6		e all paper and electronic media that contain cardholder over a secure?	data			
9.7	(a)	Is strict control maintained over the internal or external distribution of any kind of media that contains cardholded				
	(b)	Do controls include the following:				
	9.7.1	Is the media classified so it can be identified as confid	dential?			
	9.7.2	Is the media sent by secured courier or other delivery method that can be accurately tracked?	y			
9.8	ap  cai	e processes and procedures in place to ensure manager proval is obtained prior to moving any and all media cont rdholder data from a secured area (especially when med tributed to individuals)?	taining			
9.9		strict control maintained over the storage and accessibilited at that contains cardholder data?	ty of			
	9.9.1	(a) Are inventory logs of all media properly maintai	ned?			
		(b) Are media inventories conducted at least annua	ally?			
9.10	ne	media containing cardholder data destroyed when it is no eded for business or legal reasons? struction should be as follows:	o longer			
	9.10.1	Are hardcopy materials shredded, incinerated, or pul that cardholder data cannot be reconstructed?	ped so			
	9.10.2	Is electronic media with cardholder data rendered unrecoverable so that cardholder data cannot be reconstructed?				



### **Regularly Monitor and Test Networks**

Requirement 10: Track and monitor all access to network resources and cardholder data

	Que	stion Respons	se: <u>`</u>	Yes	<u>No</u>	Special*
10.1	(esp	process in place to link all access to system components becially access done with administrative privileges such as ro ach individual user?	ot)			
10.2		automated audit trails implemented for all system componen econstruct the following events:	ts			
	10.2.1	All individual user accesses to cardholder data?				
	10.2.2	All actions taken by any individual with root or administrative privileges?	ve			
	10.2.3	Access to all audit trails?				
	10.2.4	Invalid logical access attempts?				
	10.2 5	Use of identification and authentication mechanisms?				
	10.2.6	Initialization of the audit logs?				
	10.2.7	Creation and deletion of system-level object?				
10.3		the following audit trail entries recorded for all system ponents for each event:				
	10.3.1	User identification?				
	10.3.2	Type of event?				
	10.3.3	Date and time?				
	10.3.4	Success or failure indication?				
	10.3.5	Origination of event?				
	10.3.6	Identity or name of affected data, system component, or resource?				
10.4	Are	all critical system clocks and times synchronized?				
10.5	(a)	Are audit trails secured so they cannot be altered?				
	(b)	Do controls ensure the following?				
	10.5.1	Is viewing of audit trails limited to those with a job-related need?				
	10.5.2	Are audit trail files protected from unauthorized modifications?				
	10.5.3	Are audit trail files promptly backed up to a centralized log server or media that is difficult to alter?				

<sup>&</sup>lt;sup>\*</sup> "Not Applicable" (N/A) or "Compensating Control Used." Organizations using this section must complete the Compensating Control Worksheet or Explanation of Non-Applicability Worksheet, as appropriate, in the Appendix.



	Ques	tion	Response:	<u>Yes</u>	<u>No</u>	Special*
	10.5.4	Are logs for external-facing technologies written server on the internal LAN?	i onto a log			
	10.5.5	Is file-integrity monitoring or change-detection s on logs to ensure that existing log data cannot b without generating alerts (although new data be should not cause an alert)?	be changed			
10.6	Log funct auth RAD Note	ogs for all system components reviewed at least reviews must include those servers that perform s tions like intrusion detection system (IDS) and au prization, and accounting protocol (AAA) servers IUS). : Log harvesting, parsing, and alerting tools may eve compliance with Requirement 10.6.	security thentication, (for example,			
10.7	of the	dit trail history retained for at least one year, with ree months' history immediately available for ana nples, online, archived, or restorable from backup	lysis (for			

#### Requirement 11: Regularly test security systems and processes

	Question	Response:	Yes	<u>No</u>	Special*
11.1	Is the presence of wireless access points tested for by using a wireless analyzer at least quarterly or by deploying a wireless IDS/IPS to identify all wireless devices in use?				
11.2	Are internal and external network vulnerability scans quarterly and after any significant change in the netw new system component installations, changes in net firewall rule modifications, product upgrades)?	work (such as			
	Note: Quarterly external vulnerability scans must be an Approved Scanning Vendor (ASV) qualified by Po Industry Security Standards Council (PCI SSC). Sca after network changes may be performed by the con staff.	ayment Card			
11.3	(a) Is external and internal penetration testing perfo once a year and after any significant infrastructu application upgrade or modification (such as an system upgrade, a sub-network added to the en web server added to the environment)?	ire or operating			
	(b) Do these penetration tests include the following:				
	11.3.1 Network-layer penetration tests?				
-	11.3.2 Application-layer penetration tests?				

<sup>\* &</sup>quot;Not Applicable" (N/A) or "Compensating Control Used." Organizations using this section must complete the Compensating Control Worksheet or Explanation of Non-Applicability Worksheet, as appropriate, in the Appendix.



	Question	Response:	Yes	<u>No</u>	Special*
11.4	(a) Are intrusion-detection systems and/or intrusion-p systems used to monitor all traffic in the cardholde environment and alert personnel to suspected con	er data			
	(b) Are all intrusion-detection and prevention engines date?	kept up-to-			
11.5	<ul> <li>(a) Is file-integrity monitoring software deployed to ale to unauthorized modification of critical system files configuration files, or content files; and</li> </ul>				
	<ul> <li>(b) Is the software configured to perform critical file colleast weekly?</li> <li>Note: For file-integrity monitoring purposes, critical usually those that do not regularly change, but the of which could indicate a system compromise or in compromise. File-integrity monitoring products usu pre-configured with critical files for the related ope system. Other critical files, such as those for custor applications, must be evaluated and defined by the is the merchant or service provider).</li> </ul>	l files are modification sk of ually come rating m			



## Maintain an Information Security Policy

## Requirement 12: Maintain a policy that addresses information security for employees and contractors

	Ques	stion Res	sponse:	Yes	<u>No</u>	Special*
12.1		security policy established, published, maintained, and eminated, and does it accomplish the following:	1			
	12.1.1	Addresses all PCI DSS requirements?				
	12.1.2	Includes an annual process to identify threats and vulnerabilities, and which results in a formal risk assessment?				
	12.1.3	Includes a review at least once a year and updates w environment changes?	when the			
12.2	cons	daily operational security procedures developed that ar istent with requirements in this specification (for examp unt maintenance procedures, and log review procedure	ple, user			
12.3	e r a	Are usage policies for critical employee-facing technolo example, remote-access technologies, wireless technologies emovable electronic media, laptops, personal data/dig assistants [PDAs], e-mail, and Internet usage) developed define proper use of these technologies for all employe contractors?	ologies, gital oed to			
	(b) [	Do these usage policies require the following?				
	12.3.1	Explicit management approval?				
	12.3.2	Authentication for use of the technology?				
	12.3.3	A list of all such devices and personnel with access?	?			
	12.3.4	Labeling of devices with owner, contact information, purpose?	, and			
	12.3.5	Acceptable uses of the technologies?				
	12.3.6	Acceptable network locations for the technologies?				
	12.3.7	List of company-approved products?				
	12.3.8	Automatic disconnect of sessions for remote-access technologies after a specific period of inactivity?	6			
	12.3.9	Activation of remote-access technologies for vendors when needed by vendors, with immediate deactivation use?				

<sup>\* &</sup>quot;Not Applicable" (N/A) or "Compensating Control Used." Organizations using this section must complete the Compensating Control Worksheet or Explanation of Non-Applicability Worksheet, as appropriate, in the Appendix.



	Ques	stion Response:	<u>Yes</u>	<u>No</u>	Special*
	12.3.10	When accessing cardholder data via remote-access technologies, does the policy specify the prohibition of copy, move, and storage of cardholder data onto local hard drives and removable electronic media?			
12.4		ne security policy and procedures clearly define information rity responsibilities for all employees and contractors?			
12.5		he following information security management responsibilities gned to an individual or team?			
	12.5.1	Establishing, documenting, and distributing security policies and procedures?			
	12.5.2	Monitoring and analyzing security alerts and information, and distributing to appropriate personnel?			
	12.5.3	Establishing, documenting, and distributing security incident response and escalation procedures to ensure timely and effective handling of all situations?			
	12.5.4	Administering user accounts, including additions, deletions, and modifications?			
	12.5.5	Monitoring and controlling all access to data?			
12.6		formal security awareness program in place to make all loyees aware of the importance of cardholder data security?			
	12.6.1	Are employees educated upon hire and at least annually?			
	12.6.2	Are employees required to acknowledge at least annually that they have read and understood the company's security policy and procedures?			
12.7		potential employees (see definition of "employee" at 9.2 above) ened prior to hire to minimize the risk of attacks from internal ces?			
	to or	those employees such as store cashiers who only have access ne card number at a time when facilitating a transaction, this irement is a recommendation only.			
12.8	proc provi	rdholder data is shared with service providers, are policies and edures maintained and implemented to manage service iders, and do the policies and procedures include the wing?			
	12.8.1	A list of service providers is maintained.			
-	12.8.2	A written agreement is maintained that includes an acknowledgement that the service providers are responsible for the security of cardholder data the service providers possess.			

<sup>\* &</sup>quot;Not Applicable" (N/A) or "Compensating Control Used." Organizations using this section must complete the Compensating Control Worksheet or Explanation of Non-Applicability Worksheet, as appropriate, in the Appendix.



	Ques	tion	Response:	Yes	<u>No</u>	Special*
	12.8.3	There is an established process for engaging s providers, including proper due diligence prior engagement.				
	12.8.4	A program is maintained to monitor service pro DSS compliance status.	oviders' PCI			
12.9		an incident response plan been implemented to ving in preparation to respond immediately to a ch?				
-	12.9.1	(a) Has an incident response plan been creat implemented in the event of system breac				
		(b) Does the plan address, at a minimum:				
		<ul> <li>Roles, responsibilities, and communicat contact strategies in the event of a com including notification of the payment bra minimum</li> </ul>	promise			
		Specific incident response procedures				
		<ul> <li>Business recovery and continuity proce</li> </ul>	dures			
		<ul> <li>Data back-up processes</li> </ul>				
		<ul> <li>Analysis of legal requirements for repor compromises</li> </ul>	ting			
		<ul> <li>Coverage and responses of all critical s components</li> </ul>	system			
		<ul> <li>Reference or inclusion of incident responses procedures from the payment brands</li> </ul>	onse			
	12.9.2	Is the plan tested at least annually?				
	12.9.3	Are specific personnel designated to be availa basis to respond to alerts?	ble on a 24/7			
	12.9.4	Is appropriate training provided to staff with se response responsibilities?	ecurity breach			
	12.9.5	Are alerts from intrusion-detection, intrusion-p file-integrity monitoring systems included?	revention, and			
-	12.9.6	Is process developed and in place to modify a incident response plan according to lessons le incorporate industry developments?				

<sup>\* &</sup>quot;Not Applicable" (N/A) or "Compensating Control Used." Organizations using this section must complete the Compensating Control Worksheet or Explanation of Non-Applicability Worksheet, as appropriate, in the Appendix.



## Appendix A: Additional PCI DSS Requirements for Shared Hosting Providers

Requirement A.1: Shared hosting providers must protect cardholder data environment

	Qu	estion	Response:	<u>Yes</u>	<u>No</u>	Special*
A.1	ent	each entity's (that is, a merchant, service provider ity) hosted environment and data protected, per A .4:				
		nosting provider must fulfill these requirements as her relevant sections of the PCI DSS.	well as all			
	req pro	te: Even though a hosting provider may meet thes quirements, the compliance of the entity that uses ovider is not guaranteed. Each entity must comply S and validate compliance as applicable.	the hosting			
	A.1.1	Does each entity run processes that have acce entity's cardholder data environment?	ess to only that			
	A.1.2	Are each entity's access and privileges restrict cardholder data environment?	ted to its own			
	A.1.3	Are logging and audit trails enabled and uniqu entity's cardholder data environment and cons DSS Requirement 10?				
	A.1.4	Are processes enabled to provide for timely fo investigation in the event of a compromise to a merchant or service provider?				

<sup>\* &</sup>quot;Not Applicable" (N/A) or "Compensating Control Used." Organizations using this section must complete the Compensating Control Worksheet or Explanation of Non-Applicability Worksheet, as appropriate, in the Appendix.



## Appendix B: Compensating Controls

Compensating controls may be considered for most PCI DSS requirements when an entity cannot meet a requirement explicitly as stated, due to legitimate technical or documented business constraints, but has sufficiently mitigated the risk associated with the requirement through implementation of other, or compensating, controls.

Compensating controls must satisfy the following criteria:

- 1. Meet the intent and rigor of the original PCI DSS requirement.
- 2. Provide a similar level of defense as the original PCI DSS requirement, such that the compensating control sufficiently offsets the risk that the original PCI DSS requirement was designed to defend against. (See *Navigating PCI DSS* for the intent of each PCI DSS requirement.)
- 3. Be "above and beyond" other PCI DSS requirements. (Simply being in compliance with other PCI DSS requirements is not a compensating control.)

When evaluating "above and beyond" for compensating controls, consider the following:

Note: The items at a) through c) below are intended as examples only. All compensating controls must be reviewed and validated for sufficiency by the assessor who conducts the PCI DSS review. The effectiveness of a compensating control is dependent on the specifics of the environment in which the control is implemented, the surrounding security controls, and the configuration of the control. Companies should be aware that a particular compensating control will not be effective in all environments.

- a) Existing PCI DSS requirements CANNOT be considered as compensating controls if they are already required for the item under review. For example, passwords for non-console administrative access must be sent encrypted to mitigate the risk of intercepting clear-text administrative passwords. An entity cannot use other PCI DSS password requirements (intruder lockout, complex passwords, etc.) to compensate for lack of encrypted passwords, since those other password requirements do not mitigate the risk of interception of clear-text passwords. Also, the other password controls are already PCI DSS requirements for the item under review (passwords).
- b) Existing PCI DSS requirements MAY be considered as compensating controls if they are required for another area, but are not required for the item under review. For example, two-factor authentication is a PCI DSS requirement for remote access. Two-factor authentication *from within the internal network* can also be considered as a compensating control for non-console administrative access when transmission of encrypted passwords cannot be supported. Two-factor authentication may be an acceptable compensating control if; (1) it meets the intern of the original requirement by addressing the risk of intercepting clear-text administrative passwords; and (2) it is set up properly and in a secure environment.
- c) Existing PCI DSS requirements may be combined with new controls to become a compensating control. For example, if a company is unable to render cardholder data unreadable per requirement 3.4 (for example, by encryption), a compensating control could consist of a device or combination of devices, applications, and controls that address all of the following: (1) internal network segmentation; (2) IP address or MAC address filtering; and (3) two-factor authentication from within the internal network.
- 4. Be commensurate with the additional risk imposed by not adhering to the PCI DSS requirement.

The assessor is required to thoroughly evaluate compensating controls during each annual PCI DSS assessment to validate that each compensating control adequately addresses the risk the original PCI DSS requirement was designed to address, per items 1-4 above. To maintain compliance, processes and controls must be in place to ensure compensating controls remain effective after the assessment is complete.



## Appendix C: Compensating Controls Worksheet

Use this worksheet to define compensating controls for any requirement where "YES" was checked and compensating controls were mentioned in the "Special" column.

**Note:** Only companies that have undertaken a risk analysis and have legitimate technological or documented business constraints can consider the use of compensating controls to achieve compliance.

#### **Requirement Number and Definition:**

		Information Required	Explanation
1.	Constraints	List constraints precluding compliance with the original requirement.	
2.	Objective	Define the objective of the original control; identify the objective met by the compensating control.	
3.	Identified Risk	Identify any additional risk posed by the lack of the original control.	
4.	Definition of Compensating Controls	Define the compensating controls and explain how they address the objectives of the original control and the increased risk, if any.	
5.	Validation of Compensating Controls	Define how the compensating controls were validated and tested.	
6.	Maintenance	Define process and controls in place to maintain compensating controls.	



## **Compensating Controls Worksheet—Completed Example**

Use this worksheet to define compensating controls for any requirement where "YES" was checked and compensating controls were mentioned in the "Special" column.

**Requirement Number:** 8.1—Are all users identified with a unique user name before allowing them to access system components or cardholder data?

		Information Required	Explanation
1.	Constraints	List constraints precluding compliance with the original requirement.	Company XYZ employs stand-alone Unix Servers without LDAP. As such, they each require a "root" login. It is not possible for Company XYZ to manage the "root" login nor is it feasible to log all "root" activity by each user.
2.	Objective	Define the objective of the original control; identify the objective met by the compensating control.	The objective of requiring unique logins is twofold. First, it is not considered acceptable from a security perspective to share login credentials. Secondly, having shared logins makes it impossible to state definitively that a person is responsible for a particular action.
3.	Identified Risk	Identify any additional risk posed by the lack of the original control.	Additional risk is introduced to the access control system by not ensuring all users have a unique ID and are able to be tracked.
4.	Definition of Compensating Controls	Define the compensating controls and explain how they address the objectives of the original control and the increased risk, if any.	Company XYZ is going to require all users to log into the servers from their desktops using the SU command. SU allows a user to access the "root" account and perform actions under the "root" account but is able to be logged in the SU-log directory. In this way, each user's actions can be tracked through the SU account.
7.	Validation of Compensating Controls	Define how the compensating controls were validated and tested.	Company XYZ demonstrates to assessor that the SU command being executed and that those individuals utilizing the command are logged to identify that the individual is performing actions under root privileges
8.	Maintenance	Define process and controls in place to maintain compensating controls.	Company XYZ documents processes and procedures to ensure SU configurations are not changed, altered, or removed to allow individual users to execute root commands without being individually tracked or logged



## Appendix D: Explanation of Non-Applicability

If "N/A" or "Not Applicable" was entered in the "Special" column, use this worksheet to explain why the related requirement is not applicable to your organization.

Requirement	Reason Requirement is Not Applicable		
Example: 9.3.1	Visitors are not allowed in areas where cardholder data is processed or maintained.		