

PA DSS and what it means to you and your customers

Turning risk into reward







Merchant *In*security

92% of all compromised merchants were Level 4, according to a recent study





Security Mandate Basics



- Payment Card Industry Security Standards Council
- Founded by 5 major card associations
- Establishes security guidelines
- Card associations responsible for enforcement



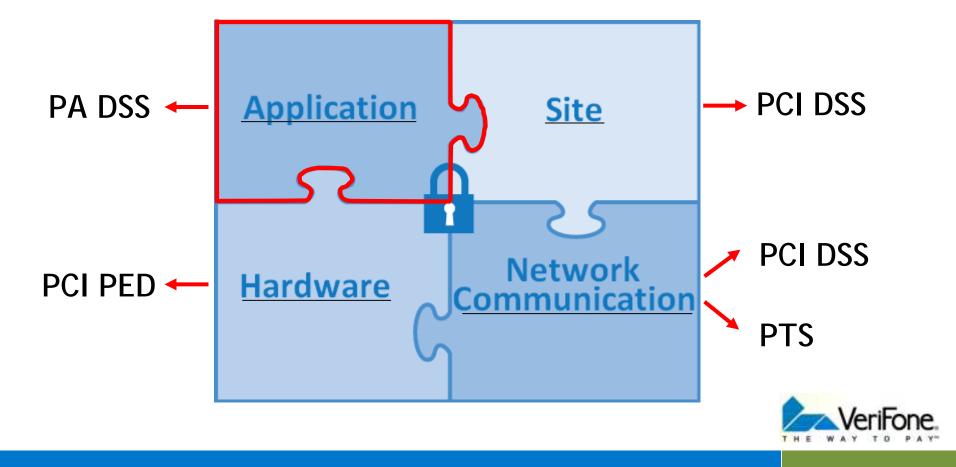
- PCI DSS Payment Card Industry Data Security Standard
- PA DSS Payment Application Data Security Standard
- PCI PED Payment Card Industry PIN Entry Device
- PTS MasterCard Point of Sale Payment Transaction Security

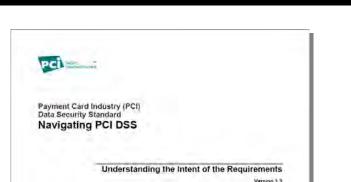






The Security Puzzle





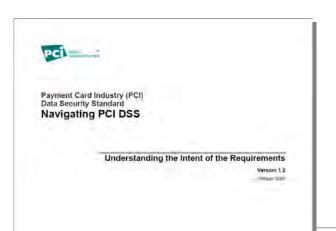


Cardholice Data and Sensitive Authentication Data Elements

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The Primary Account Number (PAN) is the defining factor in the applicability of PCI DSS requirements and PA-DSS. If the PAN is <u>not</u> stored, processed, <u>or</u> transmitted, PCI DSS and PA-DSS do not apply.







Cardholder Data and Sensitive Authentication Data Elements The sidenage grade discusses growings passed deminent of cardinates colds are presented authenticated that are sensitive and the process of the data is indicated by the cardinates and the cardinates are sensitive and the cardinates are sensitive and the cardinates to the process in the sides for the cardinates to the process in the sides for the cardinates to the process in the sides of the cardinates are sensitive and the cardinates are sensitive and the cardinates are sensitive and the data cardinates are sensitive and the cardinates are sensitive and the cardinates are sensitive and the data cardinates are sensitive and the cardinates are sensitive and th

Said another way:

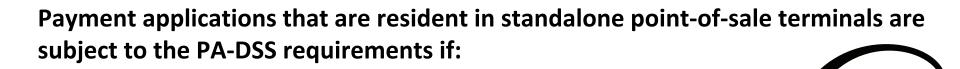
All payment acceptance devices process and transmit PAN data, and must be proven to not store PAN data.

Therefore PCI DSS and PA-DSS does apply.

Result: Merchant solutions involving POS terminals/payment applications do not get a free pass.



How does this impact stand-alone terminals?



- (1) The payment application vendor does not provide secure remote updates, troubleshooting, access and maintenance
- (2) The terminals have connection to any of the merchant's systems or networks
- (3) Sensitive authentication data is stored after authorization
- (4) The terminals connect to the merchant's acquirer or processor via anything other than a direct and private line



How can merchants definitively verify??

Other than Dial or Lease Line



Relationship between PCI DSS and PA DSS



PCI DSS Requirements

Build and Maintain a Secure Network

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

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



Protect Cardholder Data

Requirement 3: Protect stored cardholder data

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

Maintain a Vulnerability Management Program

Requirement 5: Use and regularly update anti-virus software

Requirement 6: Develop and maintain secure systems and applications

Implement Strong Access Control Measures

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

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

Requirement 9: Restrict physical access to cardholder data

Regularly Monitor and Test Networks

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

Requirement 11: Regularly test security systems and processes

Maintain an Information Security Policy

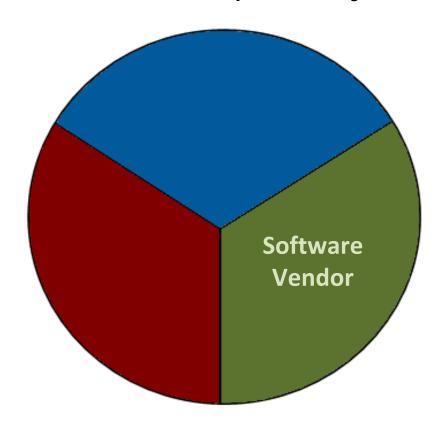
Requirement 12: Maintain a policy that addresses information security





Dividing the responsibilities

PA-DSS Responsibility

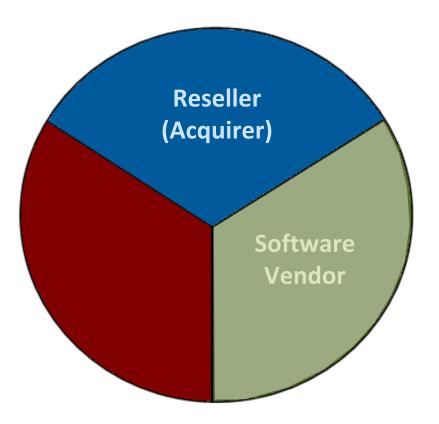


- Develop PA-DSS compliant payment applications that facilitate and do not prevent their customers' PCI DSS compliance
- Follow PCI DSS requirements when processing, storing, or transmitting card data
- Pass PA DSS audit
- Create a PA-DSS Implementation Guide
- Educate customers, resellers on configuring & installing in PCI DSS compliant manner



Dividing the responsibilities

PA-DSS Responsibility

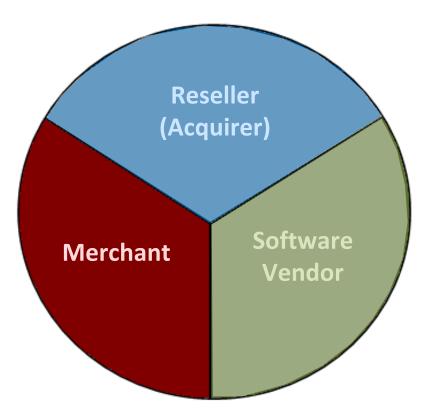


- Implementing only PA-DSS compliant payment applications into a PCI DSS compliant environment
- Configuring such payment applications according to the PA-DSS Implementation Guide provided by the vendor
- Configuring such payment applications in a PCI DSS compliant manner
- Servicing such payment applications according to the PA-DSS Implementation Guide and PCI DSS.



Dividing the responsibilities

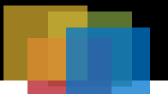
PA-DSS Responsibility



- Implementing a PA-DSS compliant payment application into a PCI DSS compliant environment
- Configuring the payment application according to the PA-DSS Implementation Guide provided by the vendor
- Configuring the payment application in a PCI DSS-compliant manner
- Maintaining the PCI DSS-compliant status for both the environment and the payment application configuration.



Self-Assessment Questionnaire for Level 4 Merchants





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



Paym No El Version February

Payment Card Industry (PCI)
Data Security Standard
Self-Assessment Que

Self-Assessment Questionnaire B and Attestation of Compliance

Imprint Machines or Stand-alone Dial-out Terminals Only, no Electronic Cardholder Data Storage

Version 1.1 February 2008



Before you Begin

Completing the Self-Assessment Questionnaire

SAQ C has been developed to address requirements applicable to merchants who process cardholder data via payment applications (for example, POS systems) connected to the Internet (via high-speed connection, DSL, cable modem, etc.), but who do not store cardholder data on any computer system. These payment applications are connected to the Internet either because:

- 1. The payment application is on a personal computer connected to the Internet, or
- 2. The payment application is connected to the Internet to transmit cardholder data.

These merchants are defined as SAQ Validation Type 4, as defined here and in the *PCI DSS Self-Assessment Questionnaire Instructions and Guidelines.* Validation Type 4 merchants process cardholder data via POS machines connected to the Internet, do not store cardholder data on any computer system, and may be either brick-and-mortar (card-present) or e-commerce or mail/telephone-order (card-not-present) merchants. Such merchants must validate compliance by completing SAQ C and the associated Attestation of Compliance, confirming that:

- Your company has a payment application system and an Internet connection on the same device;
- The payment application/Internet device is not connected to any other systems within your environment;
- Your company retains only paper reports or paper copies of receipts;
- Your company does not store cardholder data in electronic format; and
- Your company's payment application vendor uses secure techniques to provide remote support to your payment system.

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



How can a merchant be sure in answering these questions?

Protect Cardholder Data

Requirement 3: Protect stored cardholder data

	Question		tion Response:	YES	NO
3.2			systems adhere to the following requirements regarding storage of tive authentication data?	2	12
	3.2.	1	Do not store the full contents of any track from the magnetic stripe (that is on the back of a card, in a chip or elsewhere). This data is alternatively called full track, track, track 1, track 2, and magnetic stripe data. In the normal course of business, the following data elements from the magnetic stripe may need to be retained: the accountholder's name, primary account number (PAN), expiration date, and service code. To minimize risk, store only those data elements needed for business. NEVER store the card verification code or value or PIN verification value data elements.	?	Ö
	3.2.2	2	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.	2	?
	3.2.3		Do not store the personal identification number (PIN) or the encrypted PIN block.	7	?
3.3		Is the PAN masked when displayed (the first six and last four digits are the maximum number of digits to be displayed). Note: This requirement does not apply to employees and other parties with a specific need to see the full PAN; nor does the requirement supersede stricter requirements in place for displays of cardholder data (for example, for point-of-sale [POS] receipts).		?	?







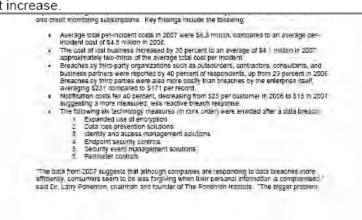
Merchant's risk of not answering with confidence

What is at risk?

- Loss of customers
- Loss of reputation



research shows that the cost of failing to do so is on the rise. According to the study, data breach incidents cost companies \$197 per compromised customer record in 2007, compared to \$182 in 2006. Lost business opportunity, including losses associated with customer churn and acquisition, represented the most significant component of the cost increase, rising from \$98 in 2006 to \$128 in 2007 – a 30 percent increase.



Merchant's risk of not answering with confidence

What is at risk?

- Loss of customers
- Loss of reputation
- Liabilities resulting from bank fines
- Litigation
- Card association fines

Loss or theft of account information

Members, service providers or merchants must immediately report the suspected or confirmed loss or theft of any material or records that contain Visa cardholder data.

If a member knows or suspects a security breach with a merchant or service provider, the member must take immediate action to investigate the incident and limit the exposure of cardholder data

If a Visa member fails to immediately notify Visa Inc. Fraud Control of the suspected or confirmed loss or theft of any Visa transaction information, the member will be subject to a penalty of \$100,000 per incident.

Members are subject to fines, up to \$500,000 per incident, for any merchant or service provider that is compromised and not compliant at the time of the incident.







What is a merchant to do?



Options for your customers:

Ignore the situation



- Pay for their own audit of the payment application
- "Trust" others with claims of compliancy
- Only accept solutions that have been verified as compliant through a qualified 3rd party source



VeriFone provides the assurance your customers need







Protect Cardholder Data

Requirement 3: Protect stored cardholder data

	Question		tion Response:	YES	NO
3.2			systems adhere to the following requirements regarding storage of tive authentication data?	X	
	3.2.1		Do not store the full contents of any track from the magnetic stripe (that is on the back of a card, in a chip or elsewhere). This data is alternatively called full track, track, track 1, track 2, and magnetic stripe data.	×	
			In the normal course of business, the following data elements from the magnetic stripe may need to be retained: the accountholder's name, primary account number (PAN), expiration date, and service code. To minimize risk, store only those data elements needed for business. NEVER store the card verification code or value or PIN verification value data elements.		
	3.2.2		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.	X	
	3.2.3		Do not store the personal identification number (PIN) or the encrypted PIN block.	X	
3.3	maxii Note: a spe stricti		PAN masked when displayed (the first six and last four digits are the num number of digits to be displayed). This requirement does not apply to employees and other parties with cific need to see the full PAN; nor does the requirement supersede or requirements in place for displays of cardholder data (for example, int-of-sale [POS] receipts).	×	



Protect Cardholder Data

Requirement 3: Protect stored cardholder data

		Question Response:	YES	NO
3.2	,	Do all systems adhere to the following requirements regarding storage of sensitive authentication data?	X	
	3.2.	Do not store the full contents of any tracker on the magnetic strike (that is on the back of avaird in a clip or elsewhere). This data is alternatively called full track, track, track 1, track 2, and magnetic stripe data.	j	
	1	In the normal course of business, the following data elements from the magnetic state of the property of the primary account to the prima		
	3.2.	Do not stole the pard-volidation code or value three digit or four- digit number printed on the front or VacVoffa payment card) used to verify card-rot-present transactions.	X	
	3.2	.3 Do not store the personal identification number (PIN) or the encrypted PIN block.	X	
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For absolute certainty... Demand Proof

