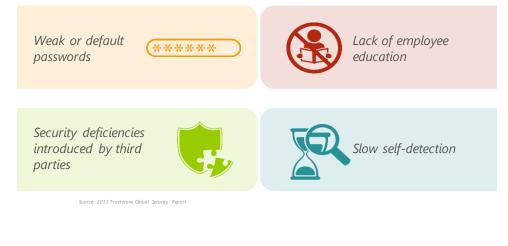


Modern Malware Hides Itself





Top Mistakes Revealed by Forensic Audits





A Multi-layered Approach is Needed



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PCI Standards are the Foundation

With version 3.0, PCI DSS is more mature than ever, and covers a broad base of technologies and processes such as encryption, access control, and vulnerability scanning to offer a sound baseline of security. PCI DSS has made comprehensive security controls more commonplace in larger organizations. Therefore, the organizations become more difficult to compromise.

Source: 2013 Trustwave Global Security Report

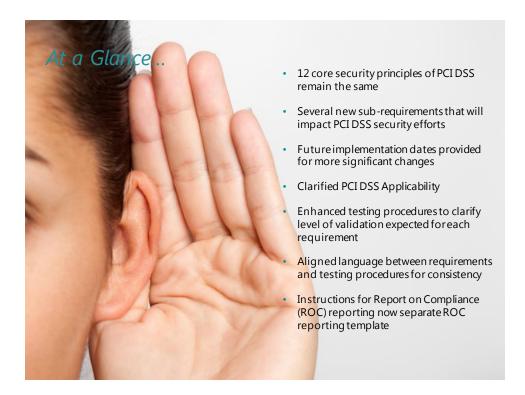








PCI DSS, PA-DSS 3.0 – Key Themes



Maintaining Compliance

Best Practices for Implementing PCI DSS to Stay Secure

- Focus on security not compliance
- PCI DSS is not a once-ayear activity
- Don't forget about people



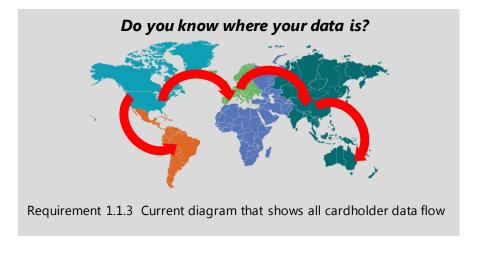
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dards Council								

Understanding Intent of Requirements

4	States Card	-			
PCI DSS Requirements	Testing Procedures	Guidance			
1.1.2 Current diagram that identifies all networks, network devices, and system components, with all connections between the CDE and other networks, including any	1.1.2.a Examine diagram(s) and observe network configurations to verify that a current network diagram exists and that it documents all connections to cardholder data, including any wireless networks.	Network diagrams describe how networks are configured, and identify the location of all network devices. Without current network diagrams, devices could be overlooked and be unknowingly left out of the security controls implemented for PCI DSS and thus be vulnerable to compromise.			
wireless networks	1.1.2,b Interview responsible personnel to verify that the diagram is kept current.				
1.1.3 Current diagram that shows all	1.1.3.a Examine data-flow diagram and interview personnel to	Cardholder data-flow diagrams identify the location			

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Impactful Changes – Requirement 1.1.3



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Physical Security for POS Devices



9.9 Protect devices that capture payment card data from tampering and substitution

- Maintain an up-to-date list of devices
- Periodically inspect device surfaces to detect tampering or substitution
- Provide training for personnel to be aware of attempted tampering or replacement of devices



Penetration Testing and Effective Scoping



11.3 Implement a penetration testing methodology

11.3.4 If segmentation is used, perform penetration tests to verify that the segmentation methods are operational and effective.



Security as a Shared Responsibility

Guidance	Outsourcing PCI DSS responsibilities
Requirement 8	 Service providers use unique credential per customer
Requirement 12	 Service providers acknowledge responsibility



Service Provider Requirements

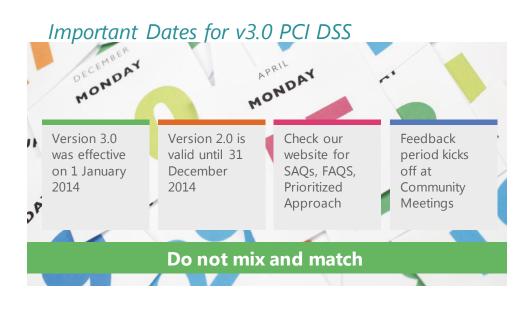
- Maintain program to monitor Service Providers PCI DSS status
- Maintain which requirements are managed by each service provider
- Service provider acknowledges in writing their responsibility to protect cardholder data

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Market Today



Mobile Payment Acceptance

PCI Standards focus on merchant-acceptance

Mobile payment acceptance still evolving

Understand risk and use PCI SSC resources





Mobile Guidelines and Best Practices



Guidelines published 2012-2013

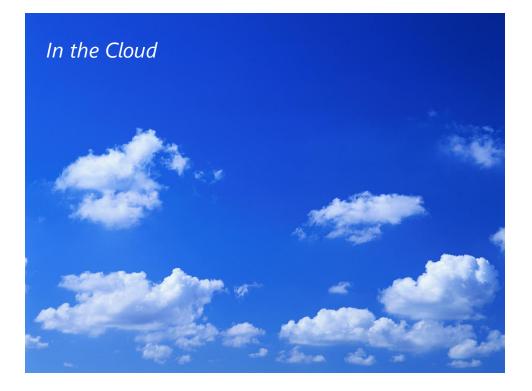
- PCI Mobile Payment Acceptance Guidelines for Developers
- PCI Mobile Payment Acceptance Guidelines for Merchants as End-Users
- Accepting Mobile Payments with a Smartphone or Tablet



Why Mobile Guidance, Not Standards







Shared Responsibility





Cloud Computing Guidelines



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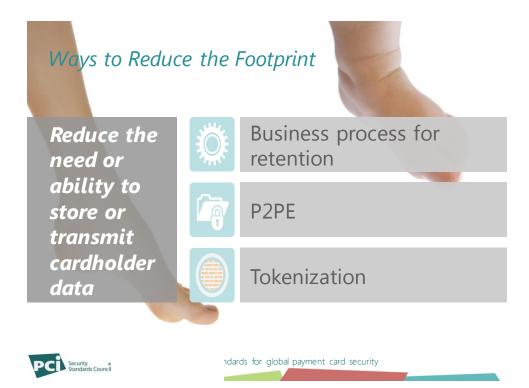
Key Recommendations

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Where the Footprint Begins





EMV Chip Helps Reduce Face-to-Face Fraud



Even **EMV Chip** Needs PCI







What is a PCI P2PE Solution?PCI PTS approved devices with
SREDPCI P2PE validated applications
and processesListed by PCI SSC

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P2PE and Merchants

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> Only PCI-listed P2PE solutions are recognized as meeting requirements for reducing merchant PCI DSS scope

Merchants and their acquirers accept the risk when using encryption solutions not listed by the Council

17

Tokenization

Work on tokenization standards has begun



The Formula for PCI Success







