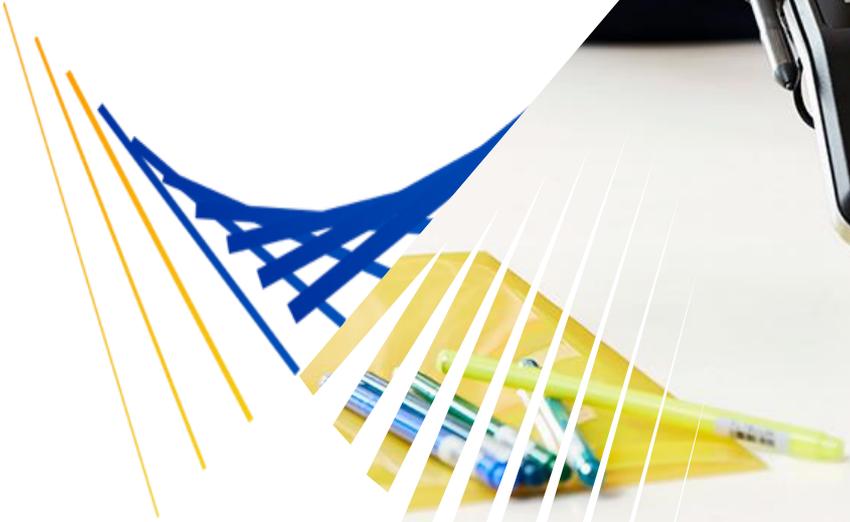


# PCI DSS Validation Best Practice Review

September 20, 2018

Ben Choong – Director, Ecosystem Data Security



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# Agenda



1. Threat Landscape and Visa's Security Strategy
2. Understanding PCI DSS Compliance and Validation
3. Common Validation Documentation Errors
4. Using the Prioritized Approach
5. Data Security Resources
6. Q&A

An abstract graphic consisting of numerous thin lines radiating from a single point at the top center. The lines are white and extend downwards and outwards, creating a fan-like shape. The lines are of varying lengths and angles, creating a sense of movement and complexity. The background is a solid dark blue color.

# Threat Landscape

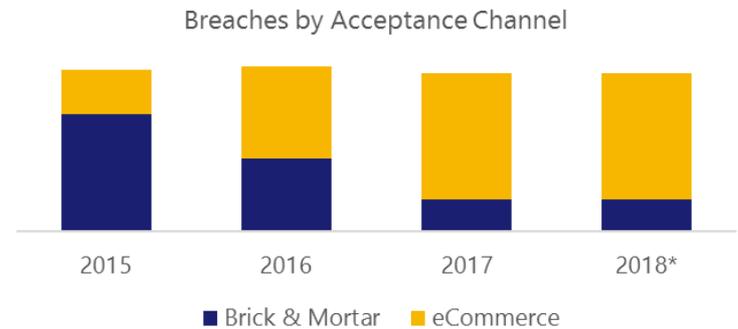
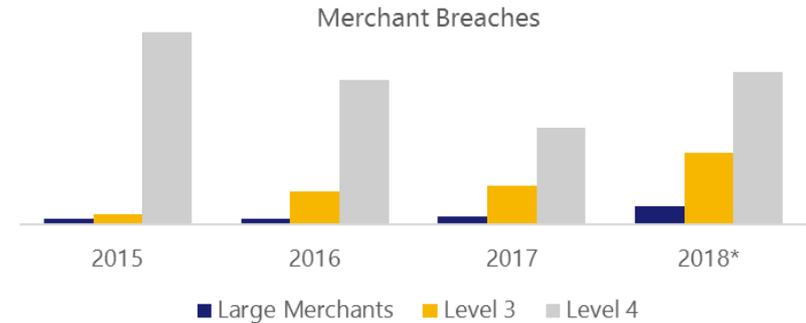
# Global Compromise Trends

## Shifting Breach Types

- Decrease in events involving magnetic stripe data
- Increase in eCommerce compromises
- Proliferation of third-party breaches

## Criminals Moving Beyond Merchants

- Targeting data aggregators and integrators/resellers
- Increasing focus on eCommerce service providers
- Penetrating financial institutions



# Visa's Security Strategy

## Data is Key to Addressing Threats

Protect Data

*Safeguard payment data*



Harness Data

*Stop fraud before it occurs*



Devalue Data

*Render data useless*



Empower Consumers

*Engage cardholders in payment security*



# Visa's Account Information Security Program



Protection of Account Information is Critical

## What is the Visa AIS Program?

- Global compliance program focused on the safeguarding of Visa account information across the payments ecosystem
- Establishes requirements for compliance and validation against industry security standards for Visa clients, merchants, processors, third party agents and other industry stakeholders

## What are the Program Objectives?

- Maintain the safety and integrity of the Visa payments ecosystem
- Proactively defend against compromises of Visa account data through monitoring compliance and addressing security deficiencies
- Incentivize adoption of secure acceptance technologies and practices



# PCI DSS: Understanding Compliance and Validation

# Payment Card Industry Data Security Standard

## Compliance + Validation

### Compliance

- Visa requires **ALL** organizations that store, transmit or process Visa account data to comply with PCI DSS
- PCI DSS applies to all payment channels, including card present, mail/telephone order, eCommerce, in-app, etc.



### Validation

- Separate and distinct from the requirement to comply with PCI DSS is the validation of compliance
- Validation is the exercise of verifying and demonstrating compliance status against the PCI DSS requirements

# Stakeholder Roles and Responsibilities

## Visa

- Establish and enforce compliance programs to ensure stakeholders protect data in accordance with industry standards
- Provide data security education and awareness on threats and mitigation strategies
- Promote use of secure acceptance technologies

## Clients

- Ensure sponsored merchants and agents handling account data on their behalf comply with PCI DSS
- Provide status updates to Visa in accordance with the AIS Program

## Merchants and Service Providers

- Protect Visa account data in accordance with PCI DSS and other applicable data security standards
- Validate compliance as required by Visa's AIS Program

## PCI SSC

- Develop and manage the PCI DSS, validation tools, guidance documentation and supporting educational material
- Train and manage Qualified Security Assessors, Approved Scan Vendors, Qualified Integrators and Resellers, and other certification programs

# PCI DSS Validation Requirements

## Merchants

| Level | Annual Transaction Volume   | Minimum Validation Requirements  |
|-------|---|--|
| 1     | 6 million+ Visa transactions (all channels)   | <ul style="list-style-type: none"> <li>Report on Compliance (ROC) by Qualified Security Assessor (QSA) or internal resources if signed by officer of the company</li> <li>Attestation of Compliance (AOC)</li> </ul> |
| 2     | 1 million to 6 million Visa transactions (all channels)   | <ul style="list-style-type: none"> <li>Self-Assessment Questionnaire (SAQ)</li> <li>Attestation of Compliance (AOC)</li> </ul>   |
| 3     | 20,000 to 999,999 Visa eCommerce transactions   | <ul style="list-style-type: none"> <li>Self-Assessment Questionnaire (SAQ)</li> <li>Attestation of Compliance (AOC)</li> </ul>   |
| 4     | Less than 20,000 Visa eCommerce transactions and all other merchants processing less than 1 million Visa transactions | <ul style="list-style-type: none"> <li>Self-Assessment Questionnaire (SAQ) or alternative validation as defined by acquirer</li> </ul>   |

## Service Providers

| Level | Annual Transaction Volume           | Minimum Validation Requirements  |
|-------|-------------------------------------|--|
| 1     | More than 300,000 Visa transactions | <ul style="list-style-type: none"> <li>Report on Compliance (ROC) by Qualified Security Assessor (QSA)</li> <li>Attestation of Compliance (AOC)</li> </ul> |
| 2     | Less than 300,000 Visa transactions | <ul style="list-style-type: none"> <li>Self-Assessment Questionnaire (SAQ)*</li> <li>Attestation of Compliance (AOC)</li> </ul>                            |

# PCI DSS Validation Documentation



## Report on Compliance (ROC)

- Report documenting detailed results from an entity's PCI DSS assessment against each individual requirement
- Template includes a thorough environmental summary (Sections 1 – 5), fields for individual PCI DSS requirement descriptions, testing procedures, reporting instructions and assessor responses.
- Report also includes supplemental appendices that may be applicable for certain entities

## Self-Assessment Questionnaire (SAQ)

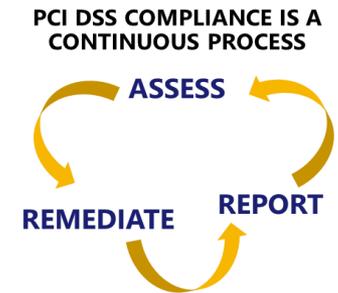
- Reporting tool used to document self-assessment results from an entity's PCI DSS assessment
- Questionnaire with a series of "YES or NO" questions for each applicable PCI DSS requirement
- There are 9 different questionnaires available to meet different acceptance environments

## Attestation of Compliance (AOC)

- Form for merchants and service providers to attest to the results of a PCI DSS assessment, as documented in the ROC or SAQ

# PCI DSS Validation Process

## Compliance Assessment and Validation Steps:



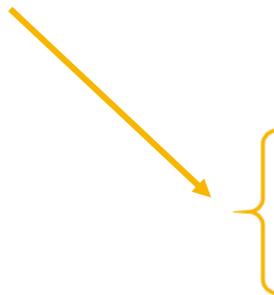
1. **Scope** – Determine which system components and networks are in scope for PCI DSS
2. **Assess** – Examine the compliance of system components in scope following the testing procedure for each PCI DSS requirement
3. **Remediate** – If required, perform remediation to address requirements that are not in place, and provide an updated report
4. **Report** – Assessor and/or entity completes required validation documentation (e.g. SAQ or ROC), including documentation of all compensating controls
5. **Attest** – Complete the appropriate Attestation of Compliance (AOC)
6. **Submit** – Submit the SAQ, ROC, AOC and other supporting documentation to the acquirer or Visa as required



# Common Validation Documentation Errors

# Attestation of Compliance

Are all payment  
acceptance  
channels  
identified and  
assessed?



| Section 1: Assessment Information  |  |  |   |      |       |
|--|--|--|---|------|-------|
| <b>Instructions for Submission</b>   |  |  |   |      |       |
| This Attestation of Compliance must be completed as a declaration of the results of the merchant's assessment with the <i>Payment Card Industry Data Security Standard Requirements and Security Assessment Procedures (PCI DSS)</i> . Complete all sections: The merchant is responsible for ensuring that each section is completed by the relevant parties, as applicable. Contact your acquirer (merchant bank) or the payment brands for reporting and submission procedures. |  |  |   |      |       |
| <b>Part 1. Merchant and Qualified Security Assessor Information</b>  |  |  |   |      |       |
| <b>Part 1a. Merchant Organization Information</b>  |  |  |   |      |       |
| Company Name:  | Geti Gas Station                           | DBA (doing business as):                                   | Geti Gas Station  |      |       |
| Contact Name:  | Rai Villar                                 | Title:   | Owner   |      |       |
| Telephone:   | 305-639-2354                               | E-mail:  | rai@getigas.com   |      |       |
| Business Address:  | 123 Main Street                            | City:  | Miami   |      |       |
| State/Province:  | FL   | Country:   | USA   | Zip: | 33125 |
| URL:   | www.getigas.com                            |  |   |      |       |
| <b>Part 1b. Qualified Security Assessor Company Information (if applicable)</b>  |  |  |   |      |       |
| Company Name:  | QSA Secure your Network                    |  |   |      |       |
| Lead QSA Contact Name:   | John Secure                                | Title:   | Senior Consultant   |      |       |
| Telephone:   | 786-214-9865                               | E-mail:  | john@qsasecure.com  |      |       |
| Business Address:  | 654 Back Street                            | City:  | Princeton   |      |       |
| State/Province:  | FL   | Country:   | USA   | Zip: | 33658 |
| URL:   | www.qsasecure.com                          |  |   |      |       |
| <b>Part 2. Executive Summary</b>   |  |  |   |      |       |
| <b>Part 2a. Type of Merchant Business (check all that apply)</b>   |  |  |   |      |       |
| <input type="checkbox"/> Retailer  | <input type="checkbox"/> Telecommunication | <input type="checkbox"/> Grocery and Supermarkets          |   |      |       |
| <input checked="" type="checkbox"/> Petroleum  | <input type="checkbox"/> E-Commerce        | <input type="checkbox"/> Mail order/telephone order (MOTO) |   |      |       |
| <input type="checkbox"/> Others (please specify):  |  |  |   |      |       |
| What types of payment channels does your business serve?   |  |  | Which payment channels are covered by this assessment?          |      |       |
| <input type="checkbox"/> Mail order/telephone order (MOTO)   |  |  | <input type="checkbox"/> Mail order/telephone order (MOTO)      |      |       |
| <input checked="" type="checkbox"/> E-Commerce   |  |  | <input checked="" type="checkbox"/> E-Commerce                  |      |       |
| <input checked="" type="checkbox"/> Card-present (face-to-face)  |  |  | <input checked="" type="checkbox"/> Card-present (face-to-face) |      |       |
| <i>Note: If your organization has a payment channel or process that is not covered by this assessment, consult your acquirer or payment brand about validation for the other channels.</i>   |  |  |   |      |       |

# Commonly Forgotten Descriptions . . .

| Part 2b. Description of Payment Card Business  |                                   |   |   |  |
|--|-----------------------------------|---|---|--|
| How and in what capacity does your business store, process and/or transmit cardholder data?  |                                   | Geti Gas Stations accept payments card at the gas pump terminals, POS and by a smartphone application.                          |   |  |
| Part 2c. Locations   |                                   |   |   |  |
| List types of facilities (for example, retail outlets, corporate offices, data centers, call centers, etc.) and a summary of locations included in the PCI DSS review.   |                                   |   |   |  |
| Type of facility   | Number of facilities of this type | Location(s) of facility (city, country)   |   |  |
| <i>Example: Retail outlets</i>   | 3                                 | <i>Boston, MA, USA</i>  |   |  |
| Retail outlets   | 10                                | Miami, FL, USA  |   |  |
|  |                                   |   |   |  |
|  |                                   |   |   |  |
|  |                                   |   |   |  |
|  |                                   |   |   |  |
| Part 2d. Payment Application   |                                   |   |   |  |
| Does the organization use one or more Payment Applications? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  |                                   |   |   |  |
| Provide the following information regarding the Payment Applications your organization uses:   |                                   |   |   |  |
| Payment Application Name   | Version Number                    | Application Vendor  | Is application PA-DSS Listed?                                       | PA-DSS Listing Expiry date (if applicable) |
| Getpaid now  | 1.5                               | Getpaid Now, LLC  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  |
| Advance Checkout Solution (ACS)  | 6.2.7.x                           | NCR   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Oct. 22, 2022                              |
|  |                                   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No            |  |
|  |                                   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No            |  |
|  |                                   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No            |  |
| Part 2e. Description of Environment  |                                   |   |   |  |
| Provide a <b>high-level</b> description of the environment covered by this assessment.<br><i>For example:</i>  |                                   | All connection in and out of the CDE. All POS, terminals and all necessary payments components are included in this assessment. |   |  |
| <ul style="list-style-type: none"> <li>• Connections into and out of the cardholder data environment (CDE).</li> <li>• Critical system components within the CDE, such as POS devices, databases, web servers, etc., and any other necessary payment components, as applicable.</li> </ul> |                                   |   |   |  |

| Part 2f. Third-Party Service Providers  |   |
|---|---|
| Does your company use a Qualified Integrator & Reseller (QIR)?  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <i>If Yes:</i>  |   |
| Name of QIR Company:  | POS Sales and Instalations  |
| QIR Individual Name:  | Bob POS   |
| Description of services provided by QIR:  | POS Sales, instalation and technal support                          |
| Does your company share cardholder data with any third-party service providers (for example, Qualified Integrator & Resellers (QIR), gateways, payment processors, payment service providers (PSP), web-hosting companies, airline booking agents, loyalty program agents, etc.)? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <i>If Yes:</i>  |   |
| Name of service provider:   | Description of services provided:                                   |
| Dolphins Payment Gateway  | Payment Gateway   |
| Badu payment processors   | payment processing.   |
|   |   |
|   |   |
|   |   |
| <i>Note: Requirement 12.8 applies to all entities in this list.</i>   |   |
|   |   |

# Check Those Boxes . . .

## Section 2: Report on Compliance

This Attestation of Compliance reflects the results of an onsite assessment, which is documented in an accompanying Report on Compliance (ROC).

|  |   |
|--|---|
| The assessment documented in this attestation and in the ROC was completed on: | 08/20/2018  |
| Have compensating controls been used to meet any requirement in the ROC?       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Were any requirements in the ROC identified as being not applicable (N/A)?     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Were any requirements not tested?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Were any requirements in the ROC unable to be met due to a legal constraint?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

## Section 3: Validation and Attestation Details

### Part 3. PCI DSS Validation

This AOC is based on results noted in the ROC dated (ROC completion date).

Based on the results documented in the ROC noted above, the signatories identified in Parts 3b-3d, as applicable, assert(s) the following compliance status for the entity identified in Part 2 of this document (check one):

- Compliant:** All sections of the PCI DSS ROC are complete, all questions answered affirmatively, resulting in an overall COMPLIANT rating; thereby Geti Gas Stations has demonstrated full compliance with the PCI DSS.
- Non-Compliant:** Not all sections of the PCI DSS ROC are complete, or not all questions are answered affirmatively, resulting in an overall NON-COMPLIANT rating, 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.
- Compliant but with Legal exception:** One or more requirements are marked "Not in Place" due to a legal restriction that prevents the requirement from being met. This option requires additional review from acquirer or payment brand.  
 If checked, complete the following:
- | Affected Requirement | Details of how legal constraint prevents requirement being met |
|----------------------|--|
|                      |  |
|                      |  |

### Part 3a. Acknowledgement of Status

Signatory(s) confirms:

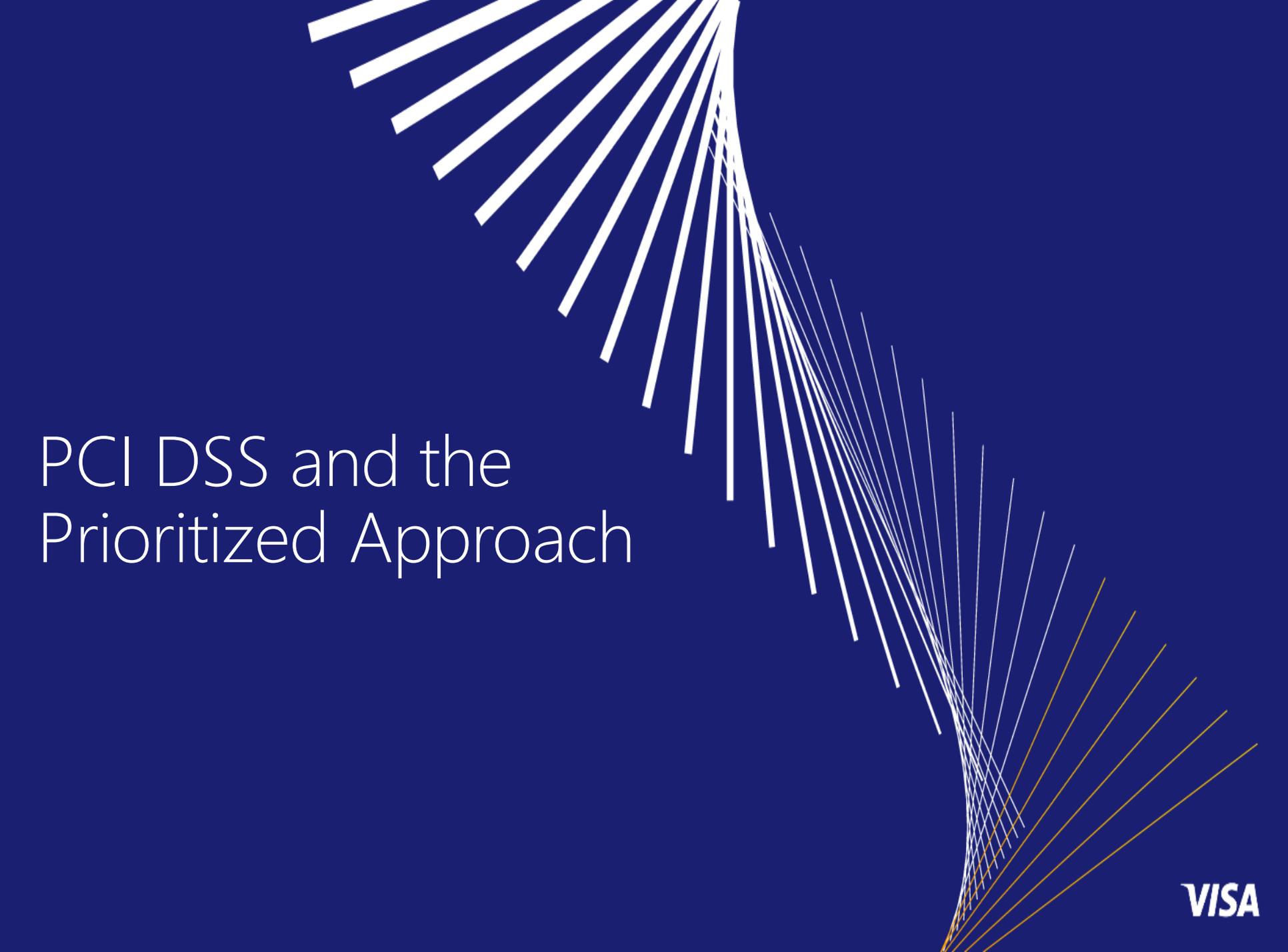
(Check all that apply)

- The ROC was completed according to the PCI DSS Requirements and Security Assessment Procedures, Version v3.2.1, and was completed according to the instructions therein.
- All information within the above-referenced ROC 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 PCI DSS compliance, as applicable to my environment, at all times.
- If my environment changes, I recognize I must reassess my environment and implement any additional PCI DSS requirements that apply.

# Signatures and Dates are Important!

| Part 3a. Acknowledgement of Status (continued)  |  |
|---|--|
| <input checked="" type="checkbox"/>   | No evidence of full track data <sup>1</sup> , CAV2, CVC2, CID, or CVV2 data <sup>2</sup> , or PIN data <sup>3</sup> storage after transaction authorization was found on ANY system reviewed during this assessment. |
| <input checked="" type="checkbox"/>   | ASV scans are being completed by the PCI SSC Approved Scanning Vendor True Link, INC.  |
| Part 3b. Merchant Attestation   |  |
|                                        |  |
| Signature of Merchant Executive Officer ↑   | Date: <b>8/20/2018</b>   |
| Merchant Executive Officer Name: <b>Rai Villar</b>  | Title: <b>CEO</b>  |
| Part 3c. Qualified Security Assessor (QSA) Acknowledgement (if applicable)  |  |
| If a QSA was involved or assisted with this assessment, describe the role performed:                                    | QSA  |
|                                        |  |
| Signature of Duly Authorized Officer of QSA Company ↑   | Date: 8/20/2018  |
| Duly Authorized Officer Name: John Secure   | QSA Company: QSA Secure your Network   |
| Part 3d. Internal Security Assessor (ISA) Involvement (if applicable)   |  |
| If an ISA(s) was involved or assisted with this assessment, identify the ISA personnel and describe the role performed: | N/A  |

| Part 4. Action Plan for Non-Compliant Requirements  |  |  |                          |   |
|---|--|--|--------------------------|---|
| Select the appropriate response for "Compliant to PCI DSS Requirements" for each requirement. If you answer "No" to any of the requirements, you may be required to provide the date your Company expects to 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. |  |  |                          |   |
| PCI DSS Requirement   | Description of Requirement   | Compliant to PCI DSS Requirements (Select One) |                          | Remediation Date and Actions (If "NO" selected for any Requirement) |
|   |  | YES  | NO                       |   |
| 1   | Install and maintain a firewall configuration to protect cardholder data                                       | <input checked="" type="checkbox"/>            | <input type="checkbox"/> |   |
| 2   | Do not use vendor-supplied defaults for system passwords and other security parameters                         | <input checked="" type="checkbox"/>            | <input type="checkbox"/> |   |
| 3   | Protect stored cardholder data   | <input checked="" type="checkbox"/>            | <input type="checkbox"/> |   |
| 4   | Encrypt transmission of cardholder data across open, public networks   | <input checked="" type="checkbox"/>            | <input type="checkbox"/> |   |
| 5   | Protect all systems against malware and regularly update anti-virus software or programs                       | <input checked="" type="checkbox"/>            | <input type="checkbox"/> |   |
| 6   | Develop and maintain secure systems and applications   | <input checked="" type="checkbox"/>            | <input type="checkbox"/> |   |
| 7   | Restrict access to cardholder data by business need to know  | <input checked="" type="checkbox"/>            | <input type="checkbox"/> |   |
| 8   | Identify and authenticate access to system components  | <input checked="" type="checkbox"/>            | <input type="checkbox"/> |   |
| 9   | Restrict physical access to cardholder data  | <input checked="" type="checkbox"/>            | <input type="checkbox"/> |   |
| 10  | Track and monitor all access to network resources and cardholder data  | <input checked="" type="checkbox"/>            | <input type="checkbox"/> |   |
| 11  | Regularly test security systems and processes  | <input checked="" type="checkbox"/>            | <input type="checkbox"/> |   |
| 12  | Maintain a policy that addresses information security for all personnel  | <input checked="" type="checkbox"/>            | <input type="checkbox"/> |   |
| Appendix A2   | Additional PCI DSS Requirements for Entities using SSL/early TLS for Card-Present POS POI Terminal Connections | <input checked="" type="checkbox"/>            | <input type="checkbox"/> |   |



# PCI DSS and the Prioritized Approach

# Prioritizing the Approach to PCI DSS Compliance

## Reducing Risk Earlier in the Compliance Process

### PCI SSC Prioritized Approach

- Provides six security milestones to help organizations incrementally protect against the highest risk factors while working towards PCI DSS compliance
- Serves as a roadmap for prioritizing implementation of security controls
- Supports financial and operational planning
- Promotes objective and measurable progress indicators

### Reminders!

- The Prioritized Approach is not a substitute, short cut or stop gap approach to PCI DSS compliance
- It is not mandatory or suitable for all organizations to use or follow the Prioritized Approach
- To achieve PCI DSS compliance, organizations must meet all PCI DSS requirements, regardless of the order in which they are implemented

# Ensure the Plan is Complete

| PCI DSS Requirements v3.2.1  | Milestone | Status<br>Please enter "yes"<br>if fully compliant with<br>the requirement | If status is "N/A", please<br>explain why requirement is<br>Not Applicable | If status is "No", please complete the following |  |          |
|--|-----------|--|--|--|--|----------|
|  |           |  |  | Stage of Implementation                          | Estimated Date for<br>Completion of<br>Milestone | Comments |
| <b>Requirement 1: Install and maintain a firewall configuration to protect cardholder data</b>   |           |  |  |  |  |          |
| 1.1 Establish and implement firewall and router configuration standards that include the following:  |           |  |  |  |  |          |
| 1.1.1 A formal process for approving and testing all network connections and changes to the firewall and router configurations   | 6         | Yes  |  |  |  |          |
| 1.1.2 Current network diagram that identifies all connections between the cardholder data environment and other networks, including any wireless networks  | 1         | N/A  | No Wireless Networks   |  |  |          |
| 1.1.3 Current diagram that shows all cardholder data flows across systems and networks   | 1         | No   |  | Planning   | October 15, 2018                                 |          |
| 1.1.4 Requirements for a firewall at each Internet connection and between any demilitarized zone (DMZ) and the internal network zone   | 2         | Yes  |  |  |  |          |
| 1.1.5 Description of groups, roles, and responsibilities for management of network components  | 6         | No   |  | Implementation In Progress                       | October 15, 2018                                 |          |
| 1.1.6 Documentation of business justification and approval for use of all services, protocols, and ports allowed, including documentation of security features implemented for those protocols considered to be insecure.  | 2         | No   |  | Implemented But Not Validated                    | October 30, 2018                                 |          |
| 1.1.7 Requirement to review firewall and router rule sets at least every six months  | 6         | Yes  |  |  |  |          |
| 1.2 Build firewall and router configurations that restrict connections between untrusted networks and any system components in the cardholder data environment.  |           |  |  |  |  |          |
| <i>Note: An "untrusted network" is any network that is external to the networks belonging to the entity under review, and/or which is out of the entity's ability to control or manage.</i>  |           |  |  |  |  |          |
| 1.2.1 Restrict inbound and outbound traffic to that which is necessary for the cardholder data environment, and specifically deny all other traffic.   | 2         | Yes  |  |  |  |          |
| 1.2.2 Secure and synchronize router configuration files.   | 2         | Yes  |  |  |  |          |
| 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 purposes, permit only authorized traffic between the wireless environment and the cardholder data environment. | 2         | No   |  | Implementation In Progress                       | November 30, 2018                                |          |
| 1.3 Prohibit direct public access between the Internet and any system component in the cardholder data environment.  |           |  |  |  |  |          |
| 1.3.1 Implement a DMZ to limit inbound traffic to only system components that provide authorized publicly accessible services, protocols, and ports.   | 2         | Yes  |  |  |  |          |
| 1.3.2 Limit inbound Internet traffic to IP addresses within the DMZ.   | 2         | No   |  | Planning   | November 30, 2018                                |          |
| 1.3.3 Implement anti-spoofing measures to detect and block forged source IP addresses from entering the network.<br>(For example, block traffic originating from the Internet with an internal source address.)  | 2         | No   |  | Planning   | November 30, 2018                                |          |
| 1.3.4 Do not allow unauthorized outbound traffic from the cardholder data environment to the Internet.   | 2         | Yes  |  |  |  |          |
| 1.3.5 Permit only "established" connections into the network.  | 2         | No   |  | Planning   | November 30, 2018                                |          |

# Milestone Completion Dates

## Review and Recognize Reasonable Completion Targets

### Prioritized Approach Summary & Attestation of Compliance\*

| Milestone      | Goals  | Percent Complete | Estimated Date for Completion of Milestone |
|----------------|--|------------------|--|
| 1              | <b>Remove sensitive authentication data and limit data retention.</b> This milestone targets a key area of risk for entities that have been compromised. Remember – if sensitive authentication data and other cardholder data are not stored, the effects of a compromise will be greatly reduced. If you don't need it, don't store it | 88.9%            | October 15, 2018                           |
| 2              | <b>Protect systems and networks, and be prepared to respond to a system breach.</b> This milestone targets controls for points of access to most compromises, and the processes for responding.  | 94.1%            | November 30, 2018                          |
| 3              | <b>Secure payment card applications.</b> This milestone targets controls for applications, application processes, and application servers. Weaknesses in these areas offer easy prey for compromising systems and obtaining access to cardholder data.   | 100.0%           |  |
| 4              | <b>Monitor and control access to your systems.</b> Controls for this milestone allow you to detect the who, what, when, and how concerning who is accessing your network and cardholder data environment.  | 100.0%           |  |
| 5              | <b>Protect stored cardholder data.</b> For those organizations that have analyzed their business processes and determined that they must store Primary Account Numbers, Milestone Five targets key protection mechanisms for that stored data.   | 100.0%           |  |
| 6              | <b>Finalize remaining compliance efforts, and ensure all controls are in place.</b> The intent of Milestone Six is to complete PCI DSS requirements, and to finalize all remaining related policies, procedures, and processes needed to protect the cardholder data environment.  | 97.1%            | October 15, 2018                           |
| <b>Overall</b> |  | 97.1%            | <b>November 30, 2018</b>                   |

*An entity submitting this form may be required to complete an Action Plan. Check with your acquirer or the payment brand's/, since not all payment brands require this section.*

**Part 5: Target Date for Achieving Full PCI DSS Compliance**

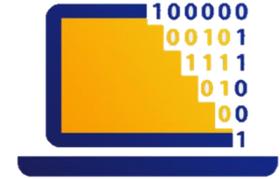
Date 30-Nov-18

**Part 6: Merchant or Service Provider Acknowledgements**

Signature of Executive Officer Bruce Joe Date 1-Sep-18

# Consider Scope Reduction Opportunities

Less Data = Less Risk



## Point-to-Point Encryption (P2PE)

- Implement PCI-validated P2PE solution to encrypt account data throughout lifecycle of transaction with no possible decryption in the merchant environment

## Network Segmentation

- Establish a network framework which uses secure tools and processes to isolate the account data environment from the remainder of the network

## Outsourcing

- Outsource payment acceptance and data processing to a PCI-validated service provider included on Visa's Global Registry of Service Providers

## EMVCo Tokenization

- Begin acceptance of payment tokens generated in accordance with the EMVCo Tokenization Specification to eliminate sensitive account data



# Data Security Resources

# Data Security Resources

Visa Data Security Website [www.visa.com/cisp](http://www.visa.com/cisp)

- Alerts, Bulletins
- Best Practices, White Papers, Webinars

Visa Global Registry of Service Providers [www.visa.com/onthelist](http://www.visa.com/onthelist)

- List of registered, PCI DSS validated third party agents

PCI Security Standards Council Website [www.pcissc.org](http://www.pcissc.org)

- Data Security Standards, Qualified Assessor Listings, Data Security Education Materials

PCI Resources for Small Merchants

<https://www.pcisecuritystandards.org/merchants/>

- Guide to Safe Payments, Common Payment Systems, Questions to Ask your Vendors
- Payment Data Security Essentials: Video and Infographics

# Visa's Ecosystem Data Security Team

## Questions? Comments?

- Agent Registration: [agentregistration@visa.com](mailto:agentregistration@visa.com)
- Third Party Compliance: [pciocs@visa.com](mailto:pciocs@visa.com)
- Merchant Compliance: [cisp@visa.com](mailto:cisp@visa.com)
- ACS/AVP: [AVPamericas@visa.com](mailto:AVPamericas@visa.com)
- PIN security: [pinna@visa.com](mailto:pinna@visa.com)





# Q&A

Thank You



VISA