# **EMV NEWS QUARTERLY**

A Publication by the EMV Migration Forum



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# DIRECTOR'S CORNER Randy Vanderhoof

#### The Time Is Now

We are rapidly approaching the critical stage for the EMV migration in the United States, when things are beginning to "normalize" around the implementation phase of chip security. The feelings of angst and urgency leading up to the October fraud liability shift date, followed by the frenzied six weeks of the holiday shopping season, have now transitioned into the new phase of seeking operational efficiency.

Now is not the time to take the foot off the gas when it comes to training, testing, and tweaking systems to perform better. Rather, it's time to make adjustments and corrections that will continue to educate consumers about using chip cards and improve the shopping experience as more people begin using chip-enabled cards at chip-enabled retailers.

It's time for smaller merchants, who either chose to sit out the migration or who were left out by their suppliers, to get EMV equipped before the potential of fraud losses increases as fraudsters move to non-EMV-enabled merchants.

This is a time for all stakeholders to finish the work we have all collectively worked towards. The complexities of the U.S. market are still very evident for some merchants, acquirers and issuers who haven't completed their migration.

The EMV Migration Forum Steering Committee, working committee leadership, and support staff are not taking this time for granted. As we meet this month in La Jolla, CA, we are keeping our focus on the present needs of the market and considering what the Forum can do for the payments industry in the next months and years ahead. I invite you to join us and add your input so that we can keep the U.S. market talking and moving forward together.

# IN THE SPOTLIGHT Testing and Certification Working Committee

In this issue of the March EMV News Quarterly, we take a look at the Testing and Certification Working Committee, which is chaired by Randy Burnette of Verifone and Cindy Kohler of Visa. The Committee's goal is to discuss the challenges with EMV certification and define approaches for achieving certification to meet the payment brand milestones for fraud liability shift. Areas for focus include: education on the testing and certification that is required for different industry stakeholders; evaluation of current processes to define approaches for streamlining testing and certification.

# What is the goal of the Testing and Certification Working Committee?

The mission of the Testing and Certification Working Committee was to focus on communication of testing requirements, education of the process and options available for different market segments in the U.S.

# What were some of the meaningful projects and resources the committee has produced?

Over the last three years, the Testing and Certification Working Committee has provided multiple trainings, testing materials, webinars, and white papers and partnered with other industry organizations (Payments Security Task Force and EMVCo Terminal Integration Task Force) to streamline testing requirements across payment networks, both for the U.S. and globally. Collectively, implementing these efforts will streamline and improve the current terminal integration testing processes globally while maintaining a balance for when to test for a stable, frictionless payment environment and acceptance experience both domestically and globally.

#### Can you describe some of the committee's key initiatives?

- Hosted EMV training for retail value-added resellers (VARs), independent software vendors (ISVs) and independent service organizations (ISOs) in September 2014, with recording available at <u>http://www.emv-connection.com/emv-workshopfor-vars-isvs-and-isos/</u>.
- Launched testing materials and resources, available on the EMV Migration Forum <u>Knowledge Center website</u>.
- Developed the "EMV Testing and Certification White Paper: Current U.S. Payment Brand Requirements for the Acquiring Community" in July 2013. An updated white paper is scheduled to be published this month.
- Collaborated with the Payments Security Task Force and PCI Security Standards Council to develop educational content for the U.S. EMV VAR Qualification Program.
- Formed the Acquirer Subcommittee which developed a "Framework Document" that identified opportunities to improve acceptance testing processes for migration to chip.

In a parallel effort, the EMVCo Terminal Integration Task Force (TITF) was established in September 2013 to also review varied acquirer processes globally, identify areas to align and determine synergies across the payment networks' testing processes for the integration of EMV contact and contactless acceptance devices into their payment environments.

Working with the Testing and Certification Working Committee's Acquirer Subcommittee, eight deliverables were

identified associated with network-defined EMV terminal testing requirements for tool automation and alignment of testing processes across all of the payment networks.

The EMVCo TITF published the *EMVCo Brand-aligned Terminal Integration Testing Framework – Process Enhancement* in November 2014. The document is available on <u>http://www.emvco.com</u>.

Industry adoption globally is currently scheduled to be complete by April 2016 and includes American Express, China UnionPay, Discover, JCB, MasterCard, and Visa.

The key benefits of these initiatives for the U.S. market are:

- Quicker development and availability of all-payment-network qualified test tools to meet market needs.
- Improved credibility and availability of all-payment-network accredited service providers to assist merchants and acquirers with their testing requirements.
- Provision of more robust testing analysis by test tools, reducing test debugging and analysis timelines and allowing for quicker deployment to market.
- Standardization of test tool readiness across all payment networks, allowing for streamlined processes.

The Working Committee continues to actively support the Forum's initiatives, providing a focused resource on testing and certification requirements.

The Brand-aligned Framework describes the plan for delivery and benefits of alignment on the following 8 items:		Benefits	
		Tool Automation	Process Improvement
1	A machine-readable format (in XML) for use in defining and developing the Brands' test card images for the terminal integration testing	R	
2	Aligned principles for defining Test Cases Pass/Fail Criteria (similar to principles defined for EMV Type Approval)		
3	A machine-readable syntax (in CSV format) for enabling test tools determination of the pass/fail criteria for each test case		
4	A common Transaction Log format to assist with test case result determination	R	
5	An aligned Test Plan template for brand consistency		R
6	Common Terminology Glossary as applied to terms and abbreviations used during terminal integration testing		R
7	Aligned criteria on when terminal integration testing is <u>required</u> vs <u>recommended</u>		
8	Common Test Report Guidelines and a machine-readable (in XML) file format template		Copyright @2014 EMVCo

### Table 1. Benefits of the EMVCo Brand-aligned Terminal Integration Testing Framework

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# FEATURE PROFILE Managing Card-Based Tip and Gratuity Payments for EMV Chip

As the U.S. migrates to chip, certain market segments that accept tips and gratuities via card payments must consider how to best serve their customer base without disrupting current acceptance practices. The two basic acceptance models for card-based tip and gratuity payments (shown in the figure below) are: tip allowance after authorization and exact tip authorization (either counter pay or table pay).

# Tip Processing Flow in EMV Chip Environment

Tip allowance after authorization (up to payment network specific percent): showing 10% as an example



#### Exact tip authorization (Counter Pay or Table Pay): showing 10% as an example



#### **Consumer Experience**

#### Tip after Authorization

counter

- The consumer experience does not need to change when a consumer presents a chip card in a restaurant
- Exact Tip Authorization
  Requires handheld terminal or cardholder to pay at the

#### Merchant Experience

#### Tip after Authorization

- Employee inserts, not swipes, the card into terminal
- Card does **not** need to be present for final settlement amount (authorization plus tip), just like today
   Event Tip Authorization
- Exact Tip Authorization
- Employee or consumer **inserts**, not swipes, the card into terminal
- Card is present at time of authorization with tip Merchants will need to **educate employees** on how to use chip cards

#### **Messaging Format**

- Single Message format (Full Financial) is more likely to include tip amount in authorization
- Dual Message format allows the clearing record to include the tip amount or be adjusted for tip with the clearing transaction

# New EMV Resources

New educational resources published for Forum members and the payments industry are available on <u>EMV</u> <u>Connection</u> and <u>GoChipCard.com</u>.

- The EMV Migration Forum released the white paper, <u>PIN</u> <u>Bypass for the U.S. Market</u>, for public distribution after incorporating member edits. The white paper provides an educational resource on the EMV function of PIN Entry Bypass, how it can be implemented in the U.S. market, other actions that may process transactions allowing selection of cardholder verification method, and how those actions differ from PIN Entry Bypass
- The Forum is continuing the <u>Ask the Expert</u> pilot with

members to help the industry get answers to EMV questions as the U.S. moves into broader EMV deployment. Submit questions through the <u>member site</u>

- The <u>EMV Connection</u> public and member site content was refreshed, including revamped organization of resources on the <u>issuer</u>, <u>merchant</u>, <u>acquirer/processor</u> and <u>consumer</u> pages
- The Smart Card Alliance <u>Health and Human Services</u> <u>Council</u> published new white paper <u>Healthcare Identity</u> <u>Authentication and Payments Convergence: A Vision for</u> <u>the Healthcare Industry</u>, to outline a vision for healthcare identity authentication and payments convergence as the U.S. migrates to EMV. This was a follow-up to the 2015 Council white paper, <u>EMV 101 for the Healthcare Industry</u>

# Working Committee Projects

#### **Card-Not-Present Fraud Working Committee**

- During the EMV Migration Forum's December meeting in Fort Lauderdale, the Card-Not-Present Fraud Working Committee identified three projects that aimed at enhancing and building upon the "Near-Term Solutions to Address the Growing Threat of Card-Not-Present Fraud" white paper. These projects have already been approved by the Steering Committee and include the following:
  - CNP 3D-Secure Comparison—the objective is to provide a side-by-side comparison between EMVCo's 3D-Secure v1.0 and the upcoming v2.0. The comparison will be included as an appendix to the white paper.
  - Defining CNP—the goal is provide a comprehensive definition of a card-not-present transaction as it relates to the white paper content. This will also be added as an appendix to the white paper.
  - CNP Fraud around the World—this project aims to discuss what has been done in other countries to mitigate CNP fraud to provide learnings for the U.S. market.

#### Communications and Education Working Committee

- The Communications & Education Working Committee received approval from the Steering Committee to proceed with an Instant Issuance Webinar, based on the "Implementing EMV in the U.S.: Best Practices in Support of EMV Instant Issuance" white paper that provides educational resources and guidance for issuers transitioning an existing instant issuance solution to support EMV. Development of the webinar is already underway and scheduled for Q2 of 2016.
- The Communications & Education Working Committee recently took on a new project that focuses on receipts to identify what information is required, the kinds of information currently included on receipts and the reasons for the information. The final product will provide greater clarity around printing receipts for EMV transactions.

#### **U.S. Coordination Working Committee**

- In late 2015, the U.S. Coordination Working Committee finished the Best Practices Q&A document; it was also approved by the Steering Committee. The Working Committee has since created a searchable webpage featuring the Q&A information and will be publishing the site for EMV Migration Forum members and the public.
- The U.S. Coordination Working Committee recently merged with the Communications & Education Working Committee to combine efforts on the best practices project and to align objectives for future projects.

For more information on Working Committee projects that are in process, please contact Mike Strock, <u>mstrock@us-emvforum.org</u>.

#### Welcome New Members

- EPX-Electronic Payment Exchange
- PayPal, Inc.
- Utimaco, Inc.

# 2016 Forum Meeting Calendar

Save these dates for in-person Forum meetings. Registration is open to reserve your spot soon.

- EMV Migration Forum 2 Day All Member Meeting, <u>June 22-23, Cambridge, MA</u> (Hyatt Regency Cambridge)
- EMV Migration Forum 2 Day All Member Meeting, <u>September 20-21, Rosemont, IL</u> (Hilton Rosemont/Chicago O'Hare)
- EMV Migration Forum 2 Day All Member Meeting, <u>December 8-9, Coral Gables, FL</u> (The Biltmore Hotel)

#### About This Newsletter

The EMV Migration Forum publishes periodic bulletins for members of the EMV Migration Forum. The EMV Migration Forum is a crossindustry body focused on supporting the EMV implementation steps required for global and regional payment networks, issuers, processors, merchants, and consumers to help ensure a successful introduction of more secure EMV chip technology in the United States. The focus of the Forum is to address topics that require some level of industry cooperation and/or coordination to migrate successfully to EMV technology in the United States. Thank you for your membership and interest, and please <u>email us</u> with any suggestions for future content.