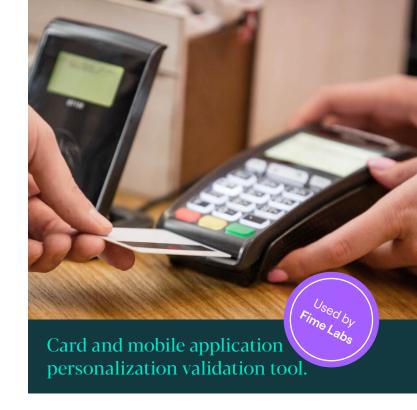


## **EMV PVT**

# Validate your EMV® card personalization data.



#### Overview.

Millions of credit and debit cards issued on a global scale each year need to undergo personalization. It is important that the personalization process goes smoothly. EMV PVT (Personalization Validation Tool) assists you in testing your EMV payment products according to the mandatory card personalization regulations set by major payment associations.

## Simplify quality control in personalization.

EMV PVT is the most thorough and comprehensive test tool for issuers, card personalization bureaus and card manufacturers to validate the personalization of their payment cards and mobile payment applications.

#### How it works.

With just one click of a button, you can store, validate, retrieve, and examine all personalization data of EMV smart card applications. This includes chip, magnetic stripe, embossing data, asymmetric keys, and PIN, all according to the mandated payment specifications.

Fime can help you at any stage of your project lifecycle.









## Key benefits

- · Covers relevant payment test specifications.
- · Work with the easy-to-use customizable user
- · Use the Wizard for easy-to-follow user guidance.
- · Browse through all EMV data elements with clear
- · Simplify quality control in personalization.

## Key features

- · Test personalization according to specifications of Mastercard CPV, Visa payWave, JCB J/Smart, Discover, Diners, UnionPay and more.
- · Explore EMV data elements with interpretation and explanation.
- · Check mobile payment parameters for secure element and cloud-based payment products with optional modules.
- · Validate card profiles generated using Mastercard's M/Chip Advance Profile Generator.

















## Specifications.

#### Test specifications supported. Fime-specified tests - Contact -**AEIPS Chip Card Specification American Express** Fime-specified tests - Contactless -ExpressPay Card Specification Contact D-PAS - U.S. Debit Personalization Profiles Guide - Contact and Contactless Contactless D-PAS - Card Application Discover Personalization Validation Rules D-PAS - Personalization Profiles Guide D-PAS Chip Card Personalization Validation Rules Fime-specified tests, based on EMV **EMV CPA** Common Payment Application Specification **Fime** Generic Fime-specified tests: EMV Generic Test Specification, based on **EMV Integrated Circuit Card** Specifications for Payment Systems J/Smart Test Cases for Contact **JCB** J/Smart Test Cases for Contactless Mastercard CPV Personalization Validation Tool Requirements Fime-specified tests - UnionPay per-**UnionPay** sonalization data validation test plan Visa Europe Global Personalization Requirements Visa Global Personalization Visa Requirements Visa U.S. Personalization Validation Requirements

#### What's in the box?

#### Optional modules.

#### Card Management module.

- · Issuer script commands, e.g., Unblock PIN, Put Data.
- Offline and online transaction execution.

#### Security module.

- AC, MAC, ENC keys check using HSM coupling for production keys.
- · Offline Data Authentication (SDA/DDA/CDA).
- Mastercard PayPass<sup>TM</sup>/Visa payWave checksum and cryptogram checking (dCVV/CVC3).

#### Mobile module.

- · Cryptogram check for cloud-based payments
- Secure element application analysis: Contactless Registry Status utilities - PPSE utilities.

## Technical specifications.

#### Available validation modules.

- · American Express validation module.
- · CPA validation module.
- · Discover and Diners validation module.
- · JCB validation module (including J/Smart, J/Speedy).
- Mastercard validation module (CPV including Maestro, Cirrus, PayPass, CAP).
- · UnionPay validation module.
- Visa validation module (including credit, debit, DPA, VPAY, payWave for EU, Visa Global Test Specification for other regions).
- Other validation modules DNA, eftpos, Interac Flash, Cabal, MEPS, SPAN/Mada, Exchange, NAPAS/ VCCS, EDU, WEX.

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