



# Mastercard CPV PVT2.0 Test Module

**Speeds up Mastercard Worldwide certification and reduces the process cost and delay associated with qualification failure**

To achieve Mastercard Worldwide certification Banks, Card Manufacturers, Personalisation Bureaus and Test Laboratories must ensure their cards comply with Mastercard Worldwide's latest Mastercard of Profile Advisor v1.3.17 and Rule Set v320, (November 2023). Obtaining Mastercard Worldwide qualification for *M/Chip*, *M/Chip Advance* and *Contactless* cards and *Mobile Payment* applications prior

to certification can be a timely and costly process. To reduce the risks of failure, cards can be pre-validated prior to submission to Mastercard Worldwide using the Mastercard CPV PVT2.0 Test Module from Barnes. Approved by Mastercard Worldwide. It contains the same detailed and rigorous tests as are used by Mastercard's certification labs globally to perform certification of cards, devices and mobiles.

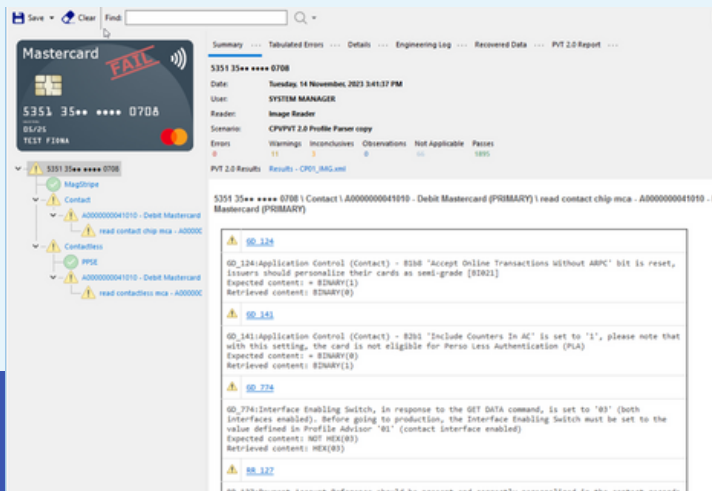
**SUPPORTED  
MASTERCARD CPV  
SPECIFICATIONS**

M/Chip Requirements for Contact and Contactless

M/Chip Personalization Data Specifications for Contact and Contactless

M/Chip Card Personalization Standard Profiles

CPV list of hot checks - InterOP



## Solution Overview

The Mastercard CPV PVT2.0 Test Module complements Barnes Card Validation Test Tools, the CPTv4. The module runs as integrated scenarios on the new CPTv4 platform and may co-exist with other modules such as Host Simulation.



## THE BARNES ADVANTAGE

Barnes is the chosen test tool of Banks & Issuers, Card Manufacturers, Personalisation Bureaus and Test Laboratories worldwide.

### BUSINESS AGILITY

Barnes test tools are easy to use by both technical and non-technical users, and speed up card development and payment scheme certification.

### COST ELIMINATION

The high business costs and wasted resources of producing and issuing invalid cards are eliminated.

### RISK REDUCTION

The reputational risk of issuing invalid EMV cards to end customers is reduced.

### FUTURE PROOFED

Barnes works in partnership with all major payment schemes. As scheme rules evolve, Barnes rapidly makes updated test script packs available to customers via the Barnes website.

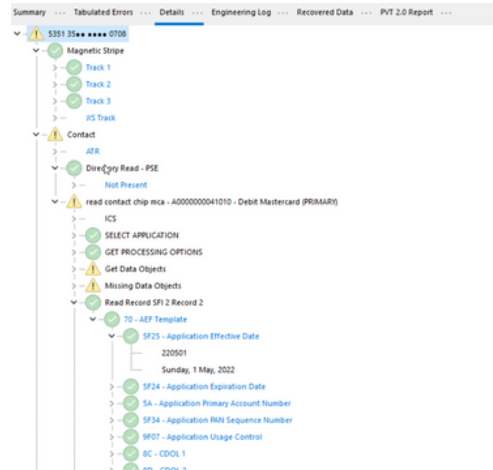
### SERVICE EXCELLENCE

Our clients have every confidence that, whatever their test requirement, the Barnes team is always on-hand to deliver expert advice and fast support.

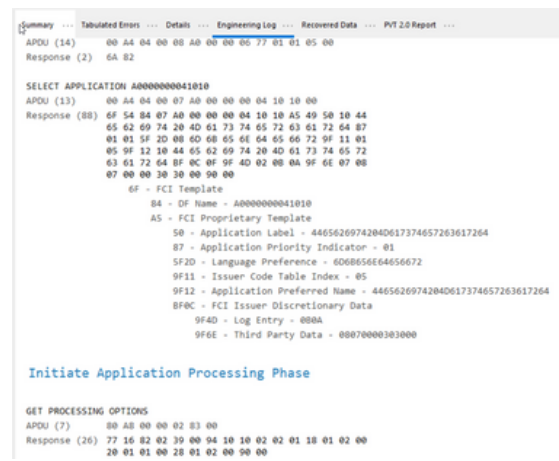


Tabs provide access to [Details Tree](#), [Engineering Log](#) and [Test Report](#). The detailed Results Tree and Engineering Log enable analysis and clear guidance for all levels of user.

## Details Tree



## Engineering Log



A full [Test Report](#) detailing the tests carried out and more in-depth detail on the errors, observations and warnings, plus the ICS selection used and a list of all the tests performed.



### Pass/Fail

Overall - **FAIL**

Transaction	Execution Status	Errors	Warnings	Inconclusive	Not Applicable	Passes
debit mastercard (primary)	Executed	0	11	3	66	1895

### ICS

Name	Value
OFFSETCVC1TRACK1	0
OFFSETCVC1TRACK2	0
PIN	1234

### Test Results

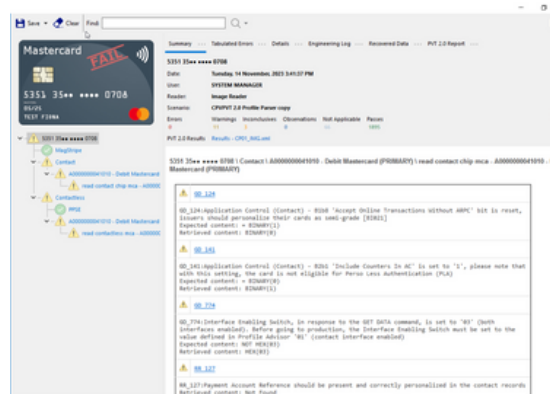
Application: **debit mastercard (primary)**

Test Name: **profile.validate\_track\_presence**

Test ID: **TR\_001 - Status: Pass**

Mag Stripe

TR\_001: Track 1 must be present in the physical manstripe for (Debit) Mastercard cards



## Instant Result Summary

Instant Result Summary showing a PASS, or in the case of FAIL, the Error or Observation Codes and Comments on the Mastercard CPV Tests which caused the failure. Test ID file name is created.