



Mastercard CPV Test Module EMV Personalisation Validation Tool

Speeds up Mastercard Worldwide certification and reduces the high 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 Personalization Validation Tool Release 2021 Requirements (January 2021) and PVT Requirements v14.1 Errata v1.0 (27 April 2021). 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 14.1 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.

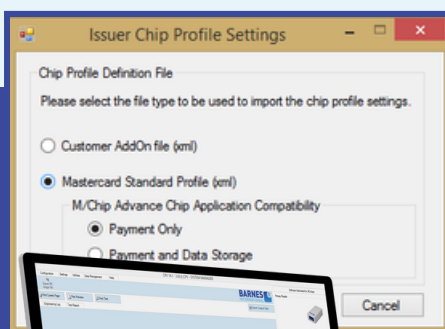
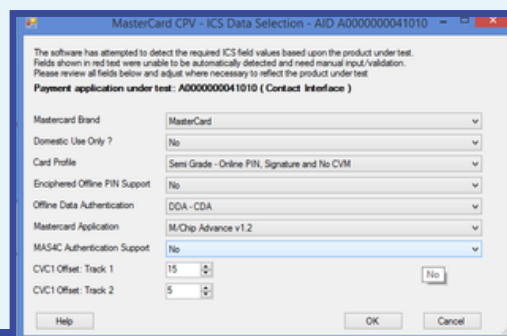
SUPPORTED MASTERCARD CPV SPECIFICATIONS

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 14.1 Test Module complements Barnes existing Card Validation Test Tools, the CAT3000v3 and CPT3000v3. The module runs as integrated scenarios on the CPT3000v3 and CAT3000v3 platforms 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.

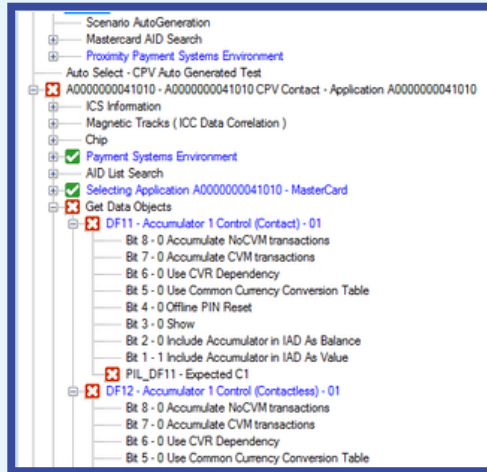
SERVICE EXCELLENCE

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

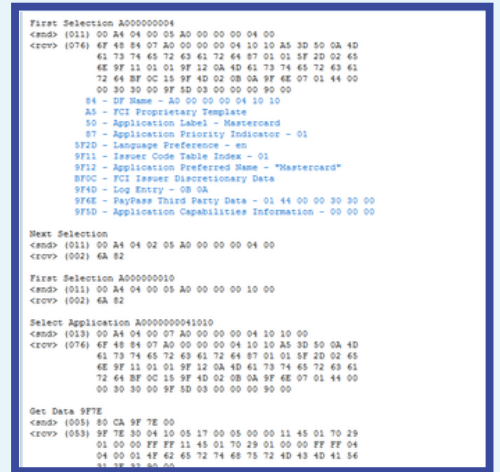


Tabs provide access to [Details Tree](#), [Engineering Log](#) and [Test Report](#). The detailed Results Tree and Engineering Log enable analysis and clear guidance for all levels of user.

Details Tree



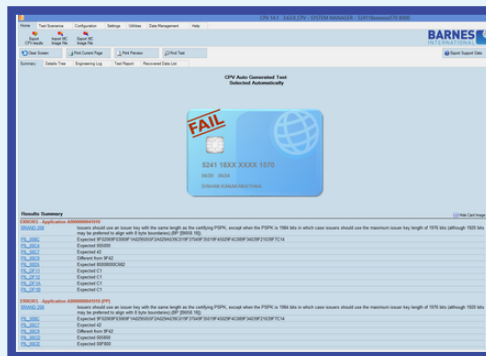
Engineering Log



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.



BARNES INTERNATIONAL	
CPV 14.1	
Card Personalisation Validation Test Report	
Test Information	
Card Identity	524118xxxxxx570 B000
Application Tested	A0000000041010 MasterCard
Result	FAIL
Date	26 May 2021 09:51
Test Profile	C:\Barnes\CPV14_freshLocalScenarios\CPV Card Testing.xls 1 A0000000041010 CPV Contact 2 A0000000041010 CPV Paypass
Test Specifications	PVT Requirements version 14.1
Offline PIN Test	Test not performed
Test Performed By	
Equipment	CPV 14.1 - 3.63.0 S/N 000114007 CPV Scripts - 3
Card Reader(s)	Barnes 3K7
Location	New
Operator	SYSTEM MANAGER
Application A0000000041010 : Errors	
Please see below the errors identified during testing. These errors will need to be corrected in order for the card to be passed by the "Application A0000000041010" test stage.	
BRAND 208	



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.