

EMV Personalisation Validation Tool

EMV Payment Scheme Certification Test Modules

TEST MODULES SUPPORT THE FOLLOWING PAYMENT SCHEME CERTIFICATION SPECIFICATIONS and ASSOCIATED TEST PLANS:

- MASTERCARD CPV
- VISA GPR
- Eftpos (CPC) Dual Interface
- NETS PVT
- RuPay PVT
- JCB J/Smart 2.0 and J/Speedy 3.0 Contact Contactless Card and Mobile
- Discover D-PAS CPV
- BKM Troy
- Credibanco
- ATH
- GIE CB

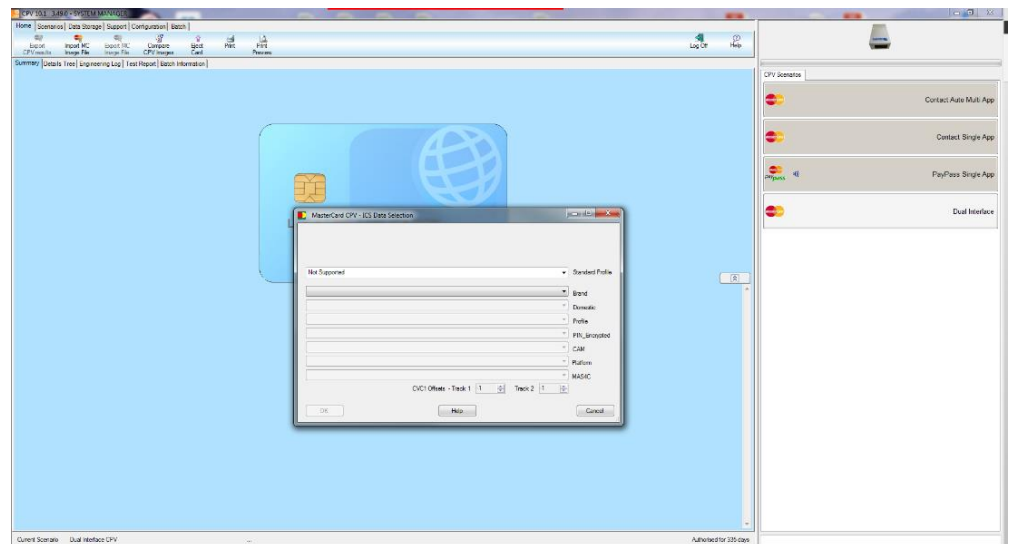
Speed up Payment Scheme certification and reduce the high cost and delay associated with qualification failures

To achieve Payment Scheme certification Banks, Card Manufacturers, Personalisation Bureaus and Test Laboratories must ensure their cards comply with EMV and the respective Payment Scheme specifications. Obtaining qualification for contact and contactless card and mobile payment applications can be a time consuming and costly process. To reduce the risks of failure, cards can be pre-validated prior to submission to the Payment Scheme using Certification Test Modules from Barnes. Approved by the Payment Schemes, the Certification Test Modules use the same detailed and rigorous tests they use to perform qualification tests on cards and mobiles.

Solution Overview

Each Test Module complements Barnes existing Card Validation Test Tools, the CAT 3000v3 and CPT 3000v3. The module runs as integrated scenarios on the CPT 3000v3 and CAT3000v3 platforms and may co-exist with other modules such as Host Simulation (including HSM).

Example screens from MasterCard CPV Test Module



ICS Selection using clear drop down options is followed by a rapid card test generating a Results Summary.



THE BARNES ADVANTAGE

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

Here are some reasons why:

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 is eliminated.

RISK REDUCTION

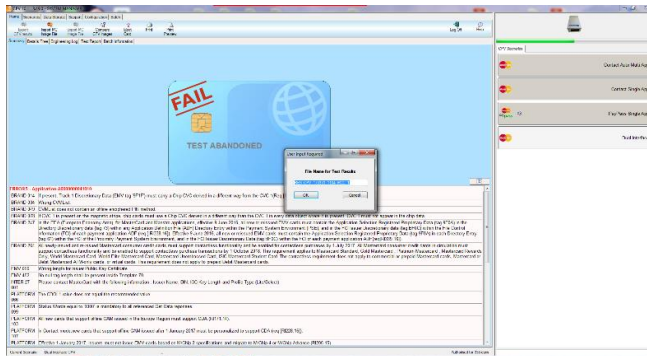
The reputational risk of issuing invalid EMV cards to end customers is reduced.

FUTURE PROOFED

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

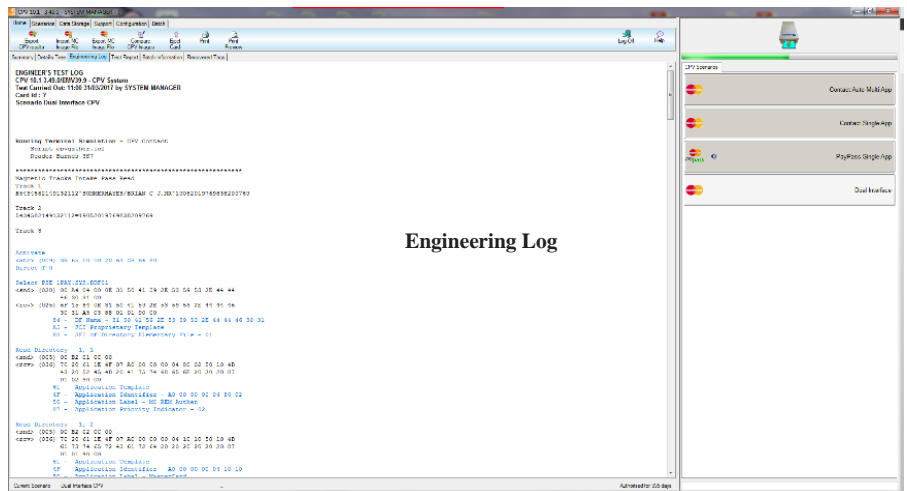
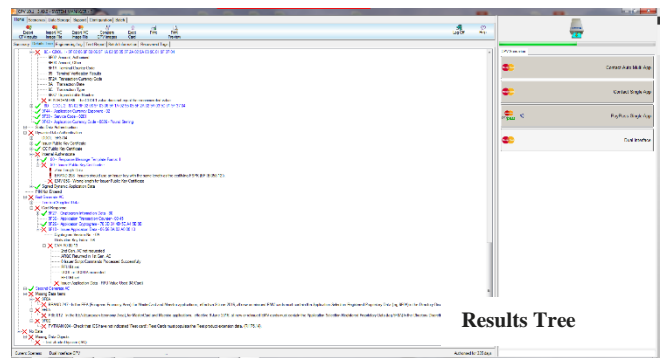
SERVICE EXCELLENCE

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



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

Tree and Engineering Log enable analysis and clear guidance for all levels of user.



A full **Test Report** detailing the tests carried out and more in depth detail on the errors and observations, plus the ICS selection used and a list of all the tests performed.

CPV 10.1 Card Personalisation Validation Test Report

Test Information	
Card Identity	?
Application Tested	A0000000041010 MasterCard
Result	FAIL
Date	31 March 2017 11:04
Test Profile	Dual Interface CPV 1 CPV Contact 2 MasterCard CPV Tests 3 CPV PayPass
Test Specifications	PVT Requirements version 10.1
Offline PIN Test	NO_PIN
Test Performed By	
Equipment	CPV 10.1 - 3.49.0 - SN 00014001 CPV Script(s) - 10.1.0
Card Reader(s)	Barnes 3K7 Barnes 3K7
Location	CPV System
Operator	SYSTEM MANAGER

Application A0000000041010 - Failures
 Please refer below the errors identified during testing. These errors will need to be corrected in order for the card to comply with the MasterCard CPV requirements.
BRAND 014
 9F1F Track 1 Discretionary Data (EMV tag '9F1F') must carry a Chip CVC derived in a different way from the CVC 1 (Req[R080.12]) if present, Track 1 Discretionary Data (EMV tag '9F1F') must carry a Chip CVC derived in a different way from the CVC 1 (Req[R080.12]) if present.