



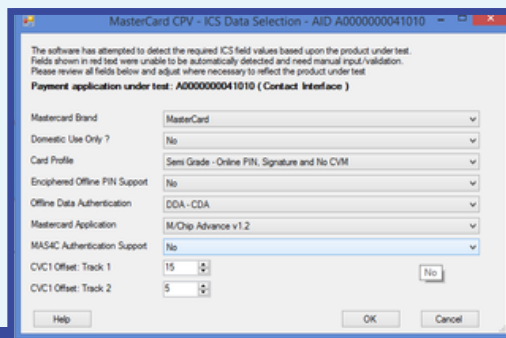
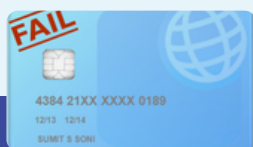
EMV Payment Scheme Certification Test Modules

EMV Personalisation Validation Test Platform

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 Schemes 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.



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

- American Express
- ATH
- BancNet
- BKM Troy
- Credibanco
- CUP and F-CUP
- Discover D-PAS CPV
- EBC
- Eftpos (CPC)
- EMVCO L3 QT
- GIE CB & CPACE
- GIMAC
- Interac
- JCB J/Smart & HPA
- mada
- Mastercard CPV and FIME-CPV
- MCCC
- NCCC
- NETS PVT
- NETS Wise RSA
- NSICCS
- PayPak
- Pure
- RuPay PVT
- Troy BKM
- VISA GPR PVT
- Visa Europe Self-Certification

Solution Overview



Each Test Module complements Barnes existing Card Validation Test Tools, the CAT 3000v3CL and CPT 3000v3CL. The module runs as integrated scenarios on the CPT 3000v3CL and CAT 3000v3CL platforms and may co-exist with other modules such as Host Simulation (including HSM).



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.

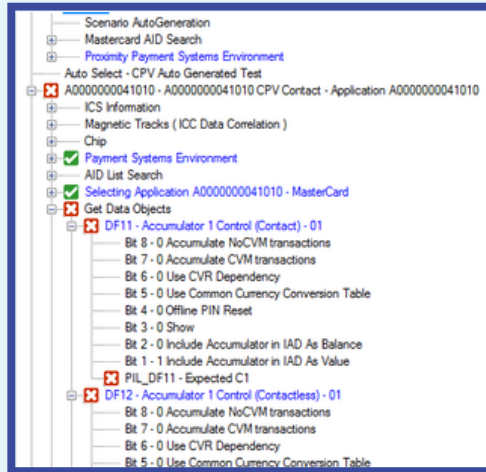
SERVICE EXCELLENCE

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

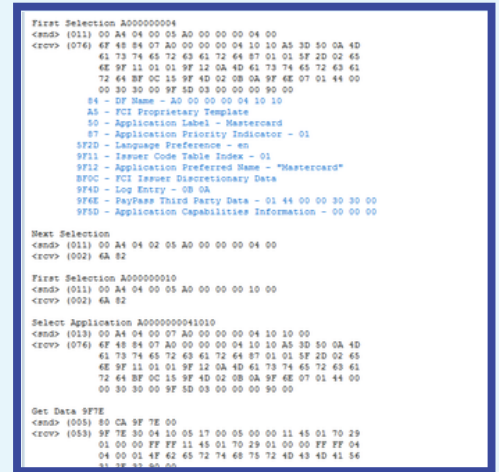


Tabs provide access to [Details Tree](#), [Engineering Log](#) and [Test Report](#). The detailed Results Tree and Engineering Log enable analysis and clear guidance for all levels of user.

Details Tree



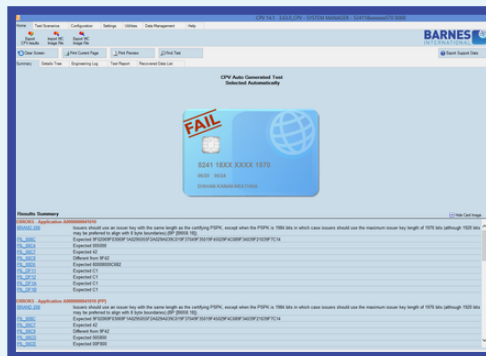
Engineering Log



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 00014007 CPV Scripts - |
| 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 Tests which caused the failure. Test ID file name is created.